

# Introduksjon til Flux

**Hva?**

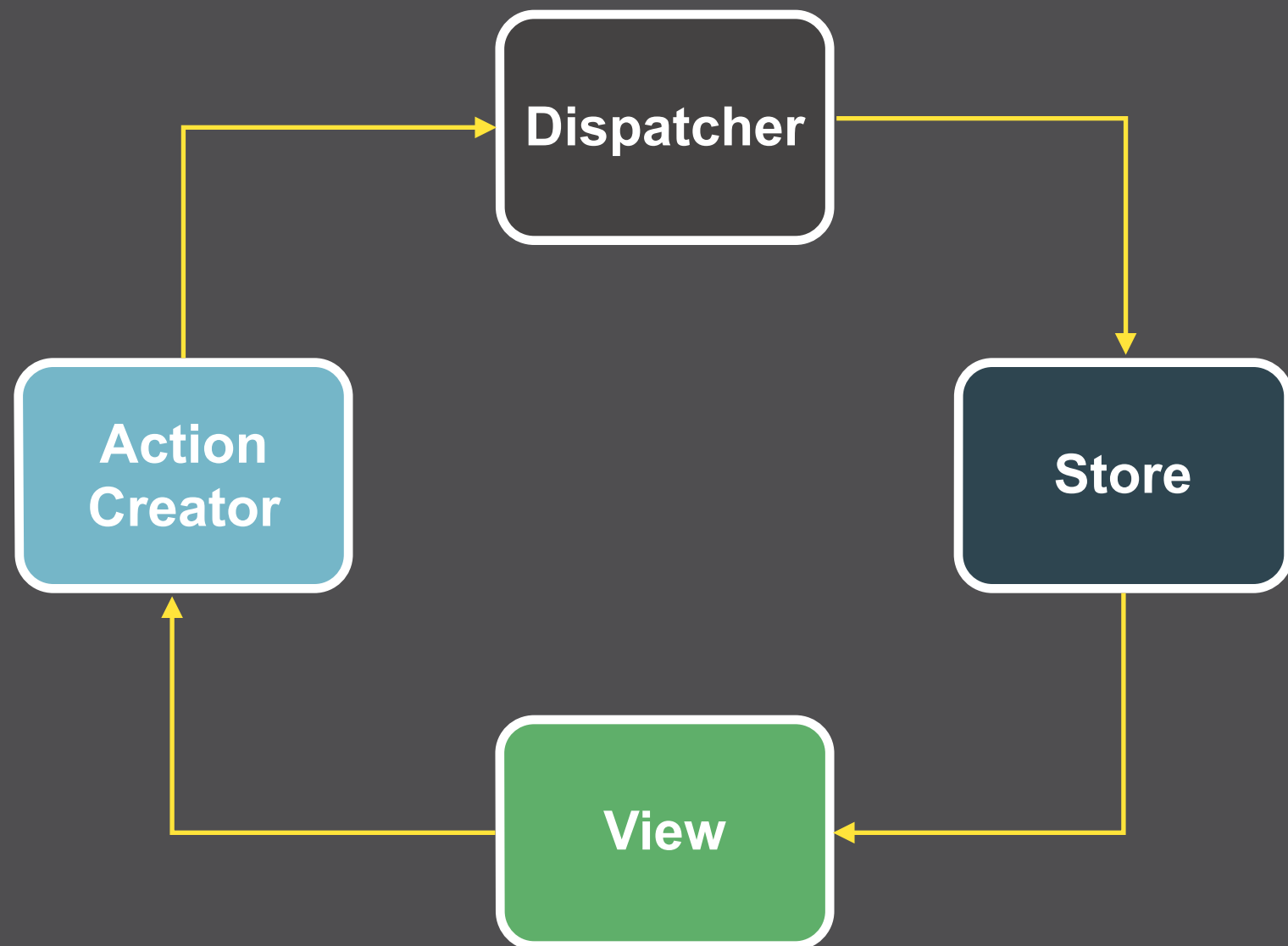
**Hvordan?**

**Hvorfor?**

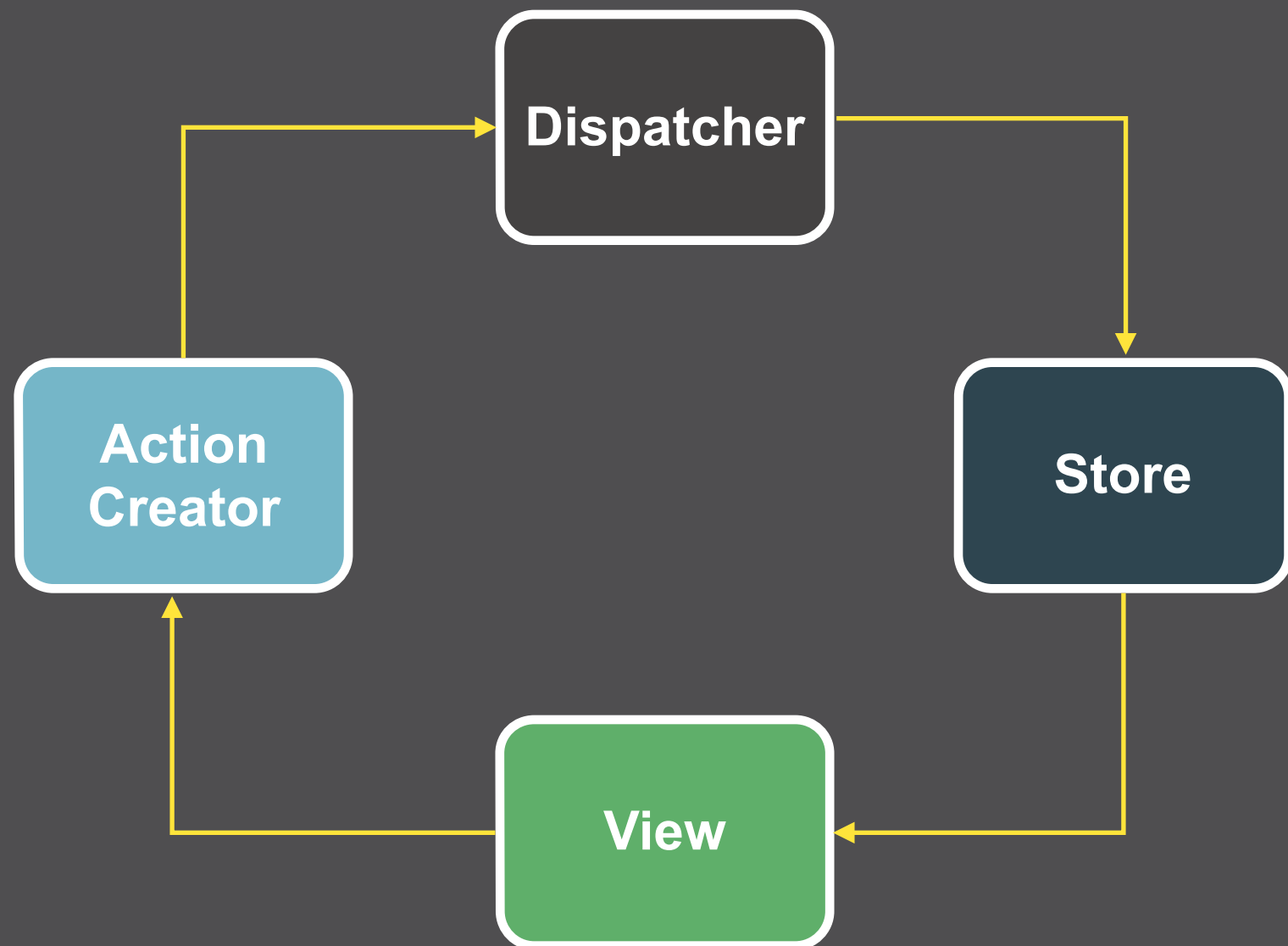
Hva?

**Et design pattern for  
frontend**

# Flux

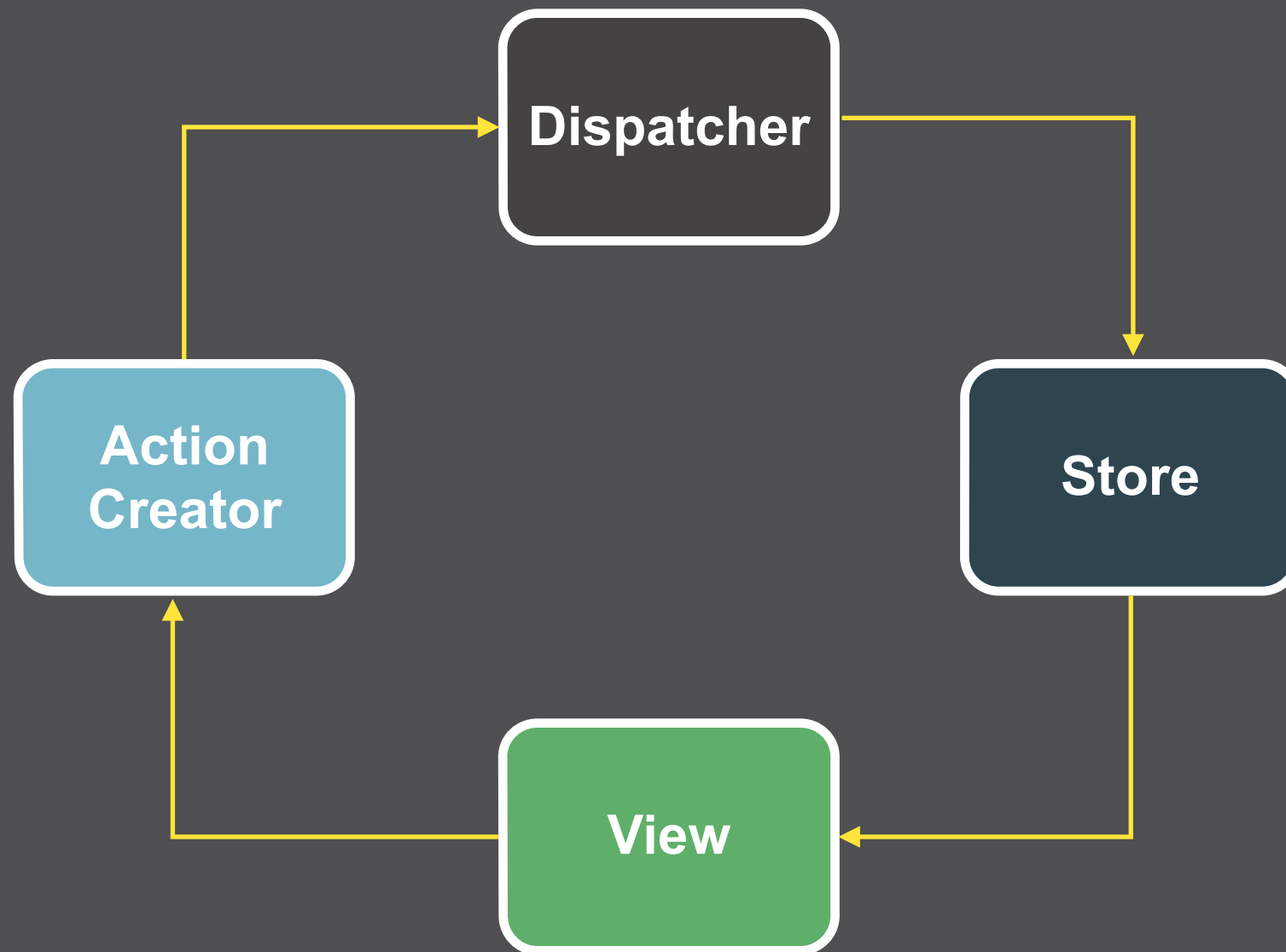


# Mental modell



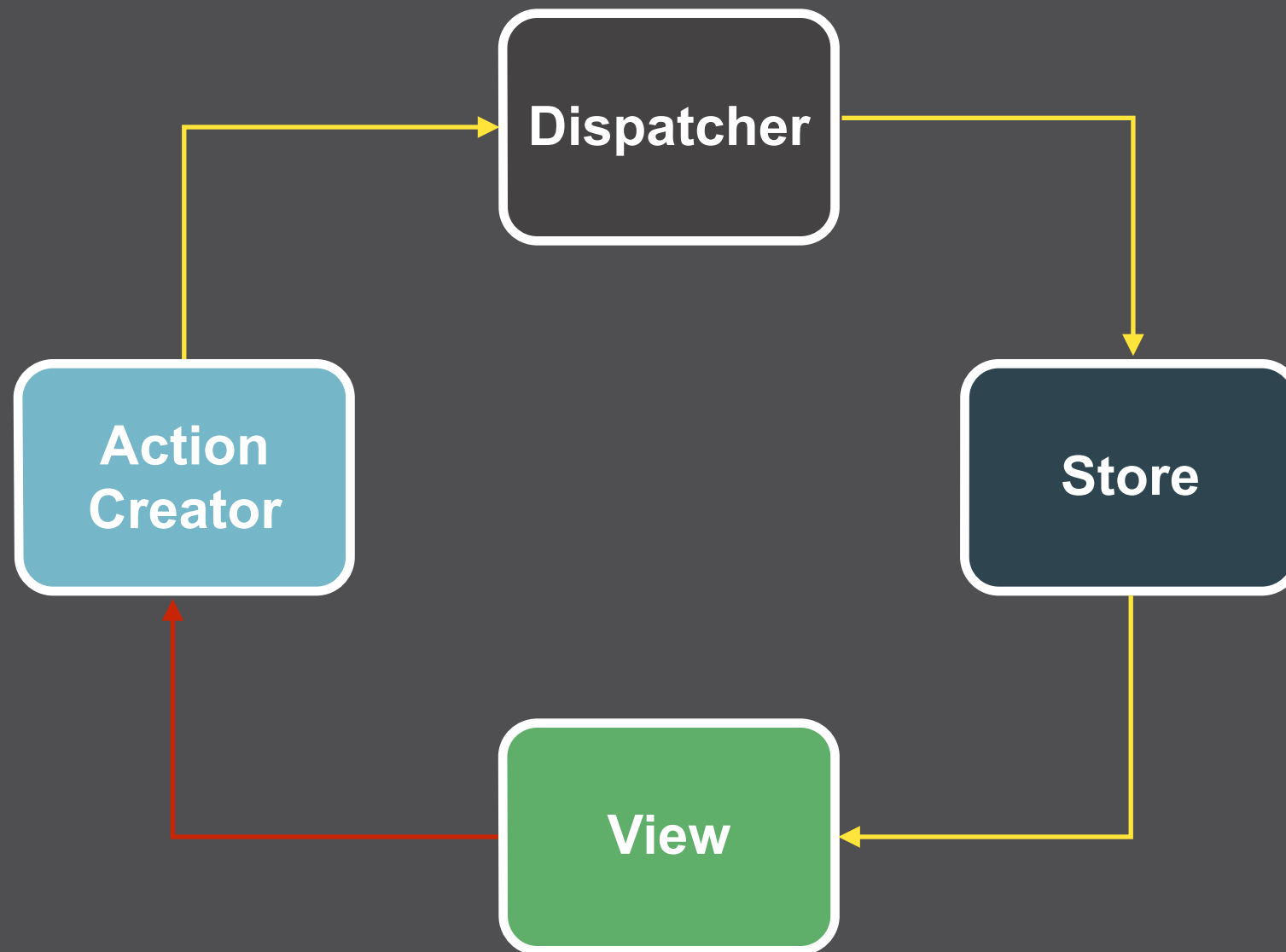
**Enkelt og forutsigbart**

# Dataflyten går kun én vei

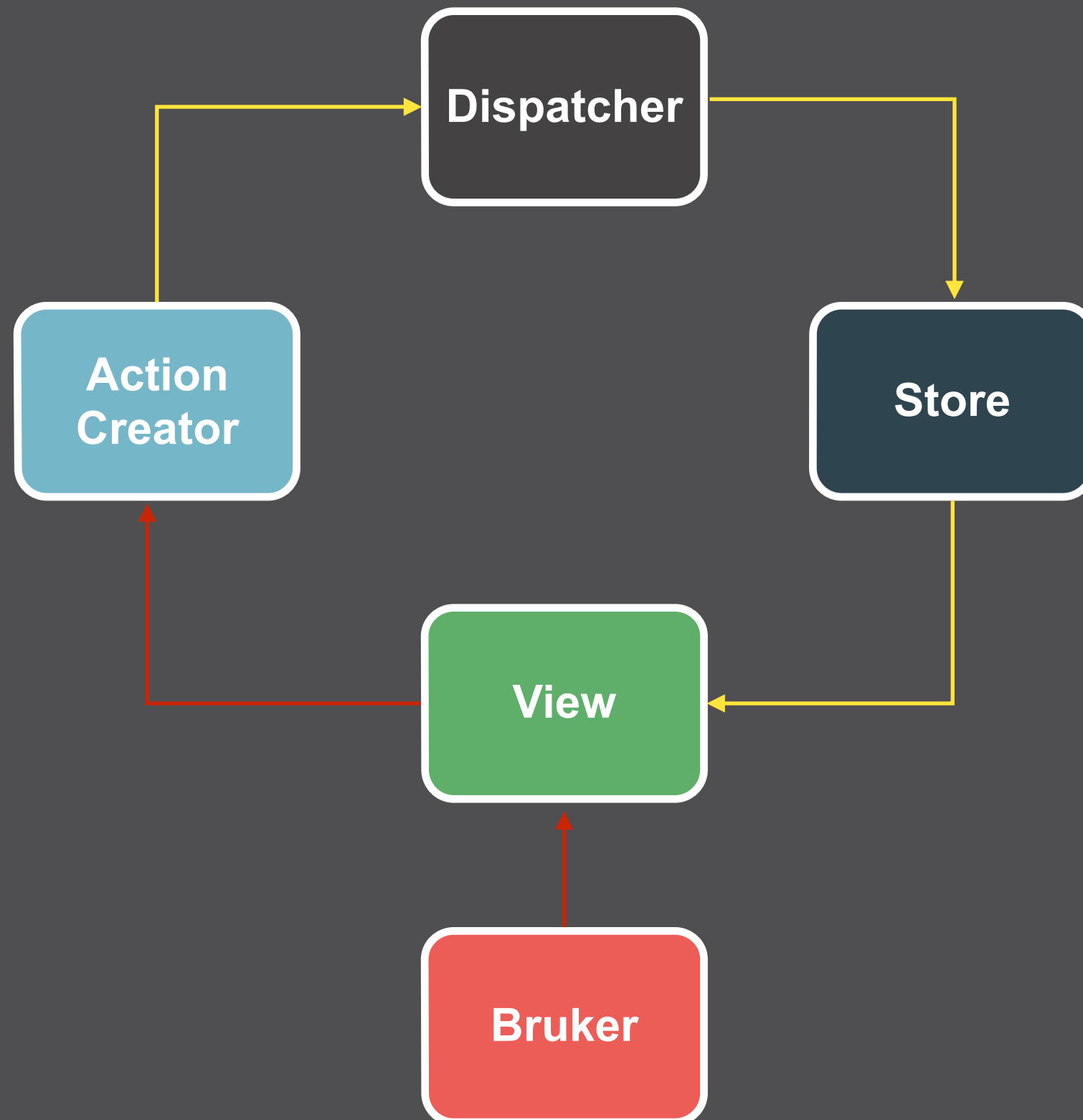




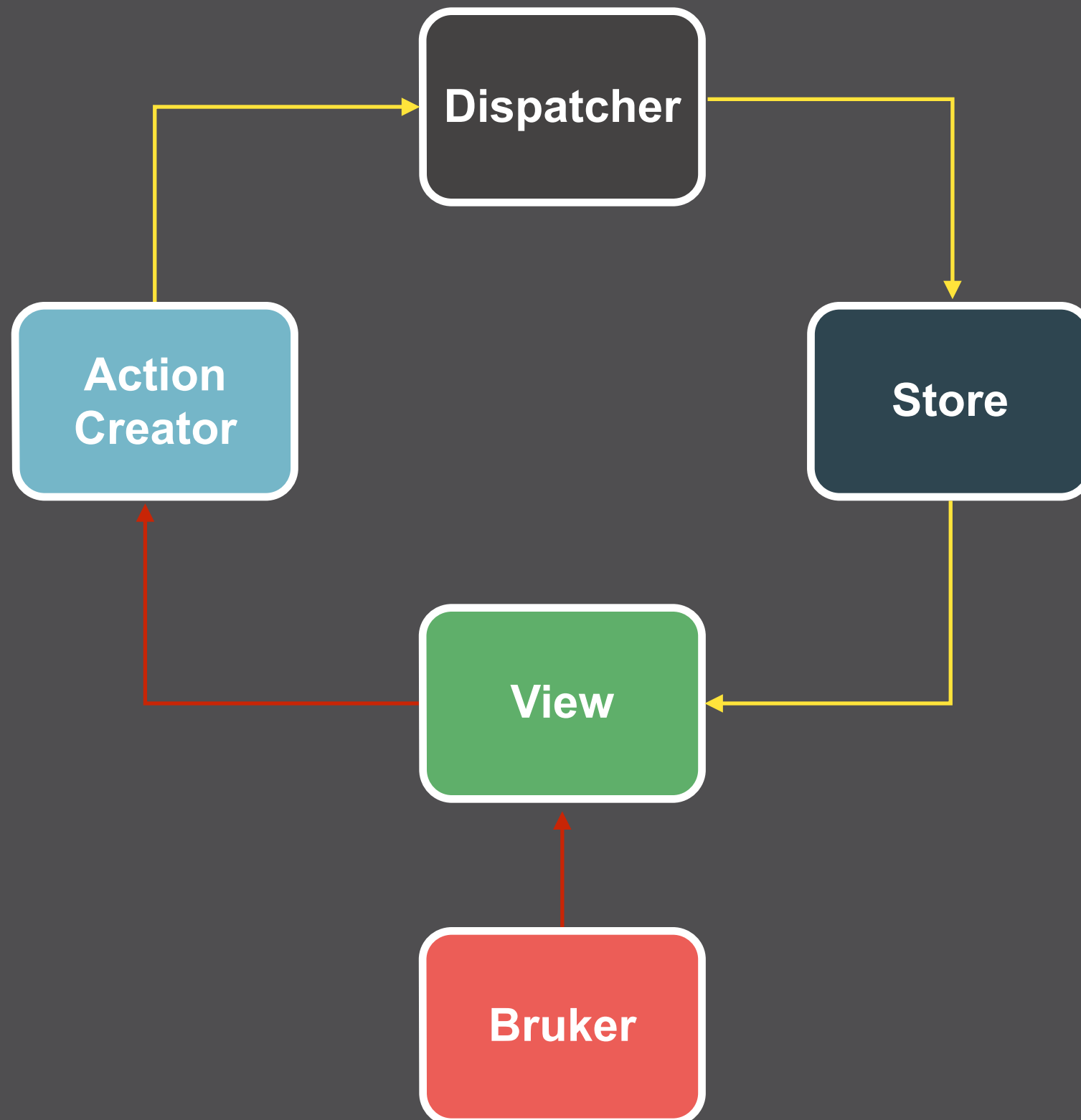
# Hvor kommer data fra?



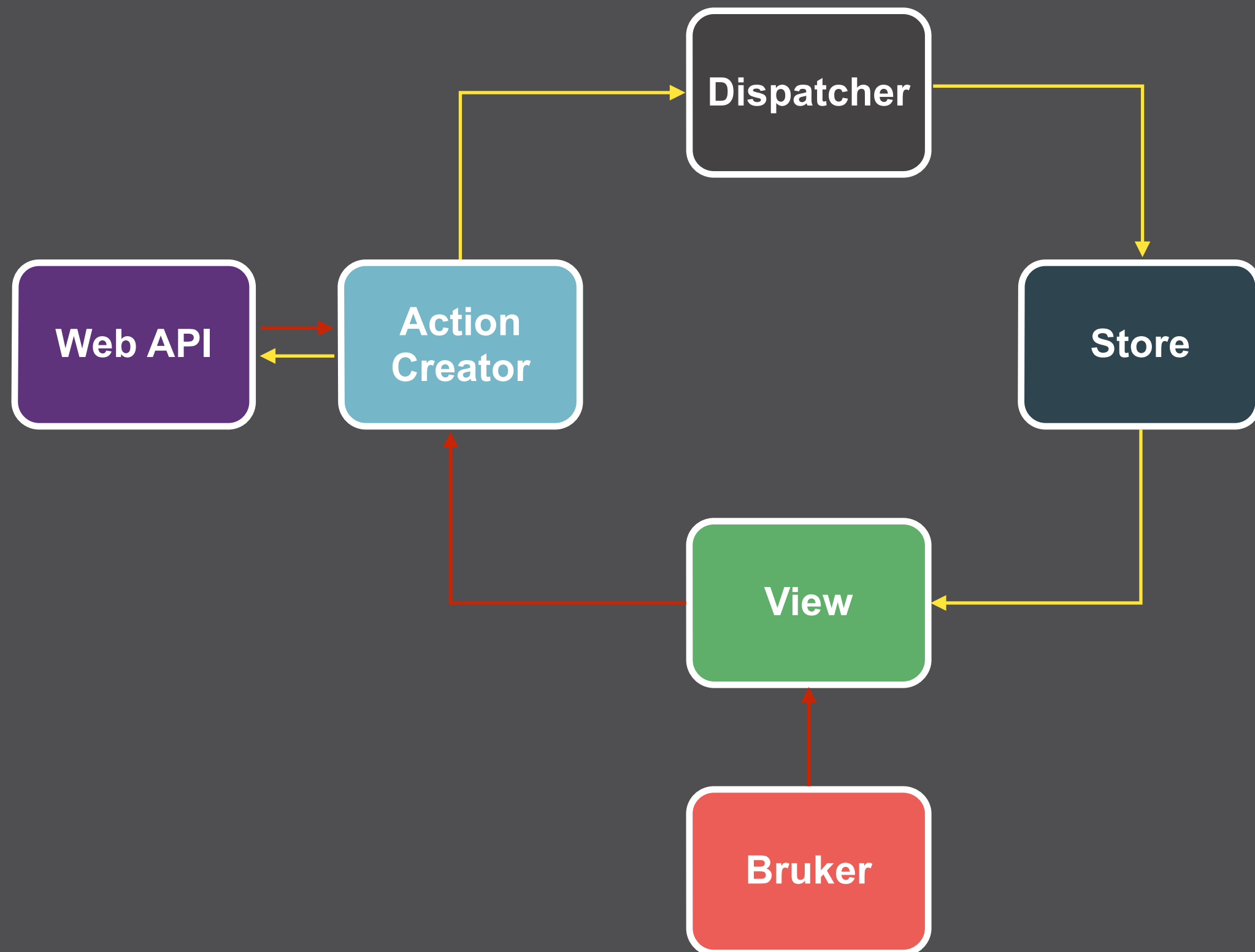
# Hvor kommer data fra?



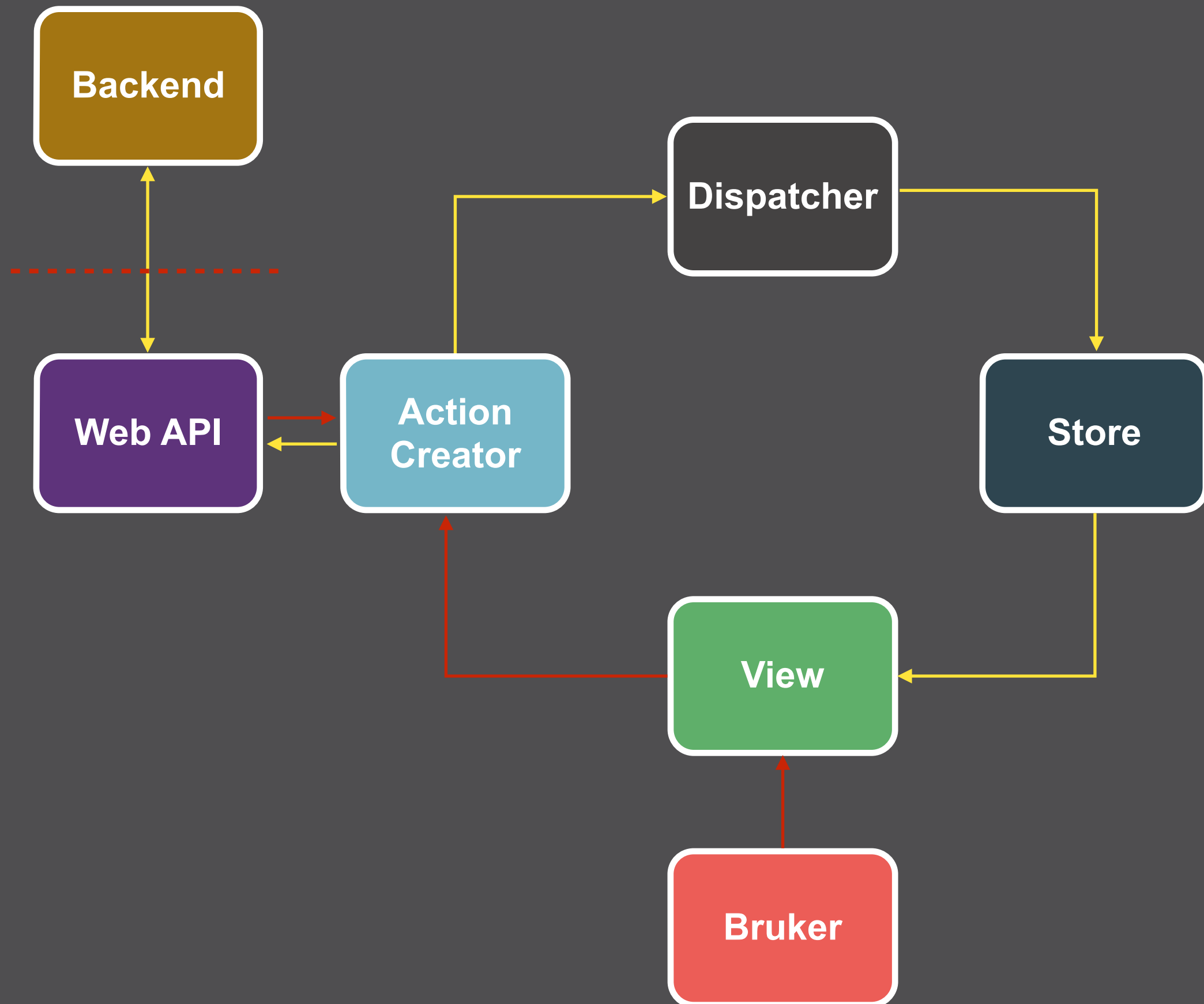
# Data fra backend?



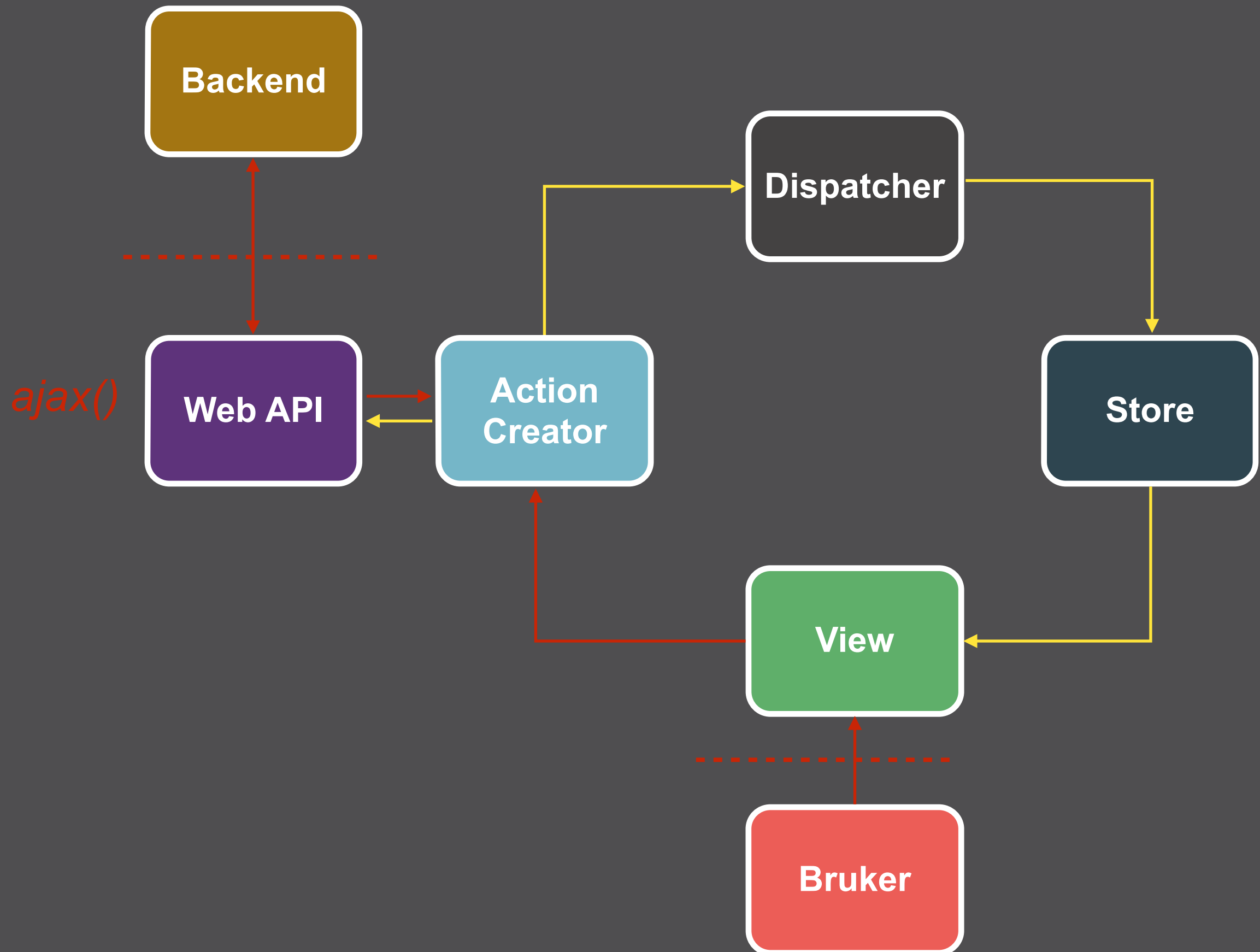
# Data fra backend?



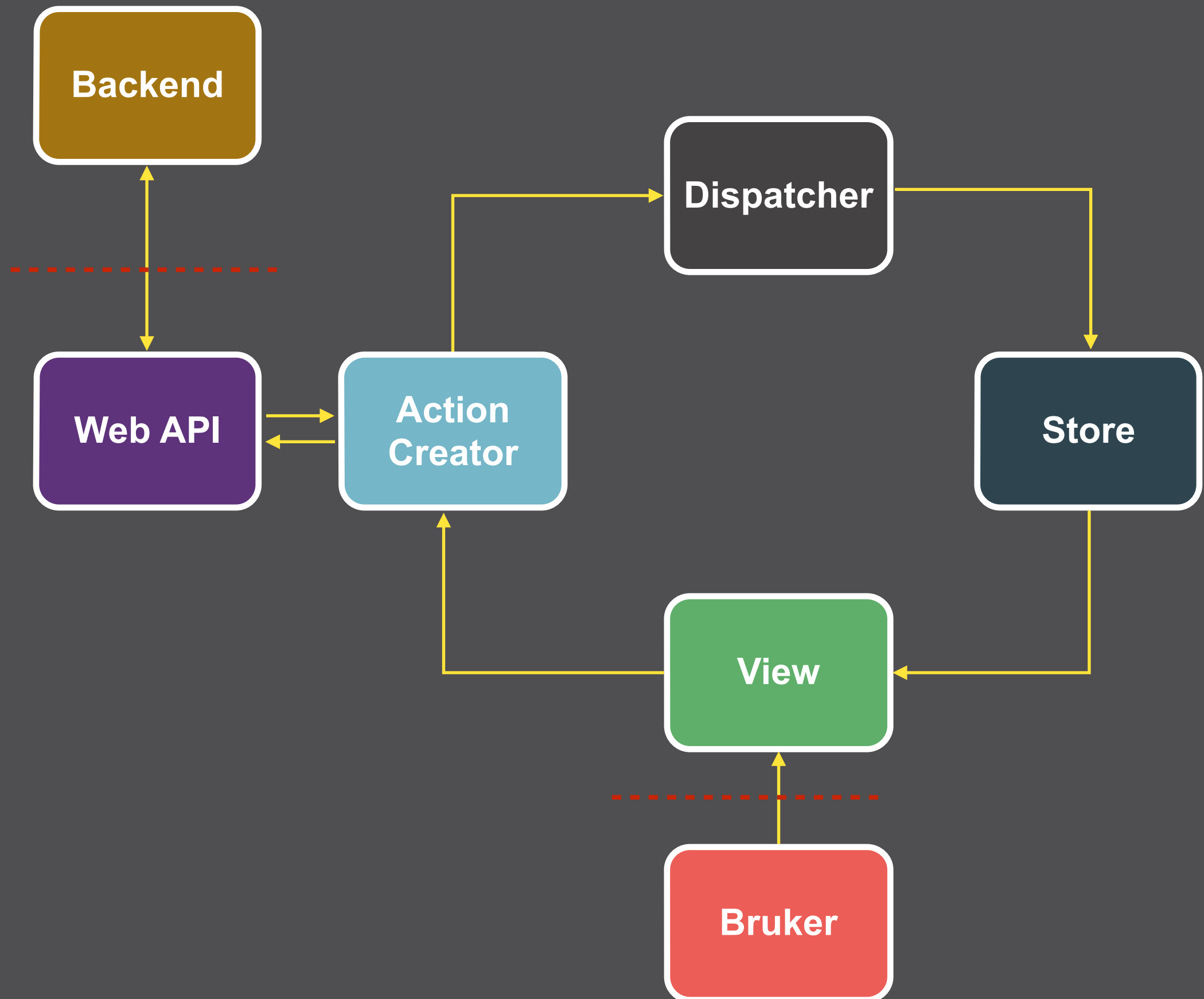
# Data fra backend?



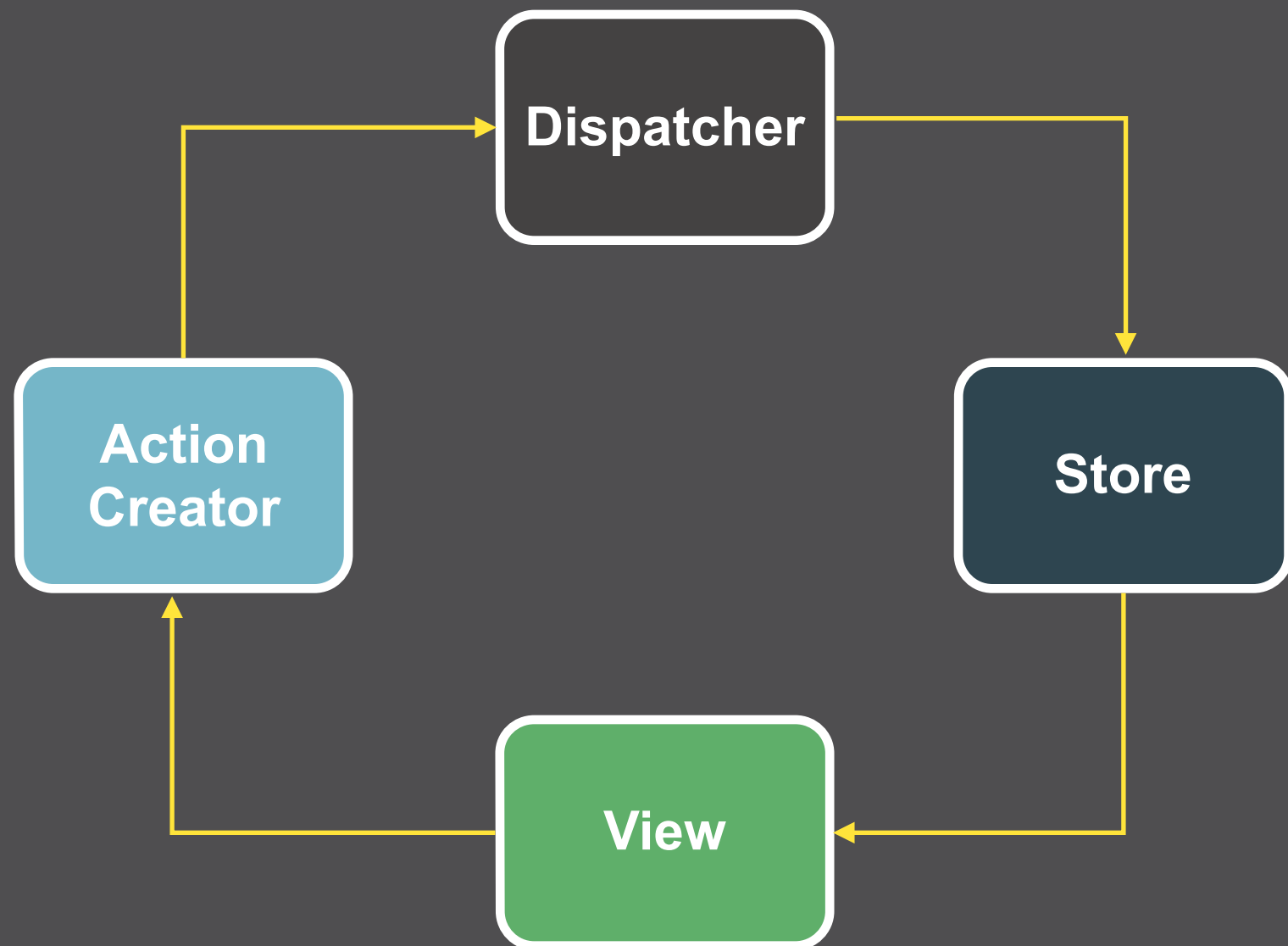
# Data fra backend?



# Hele arkitekturen

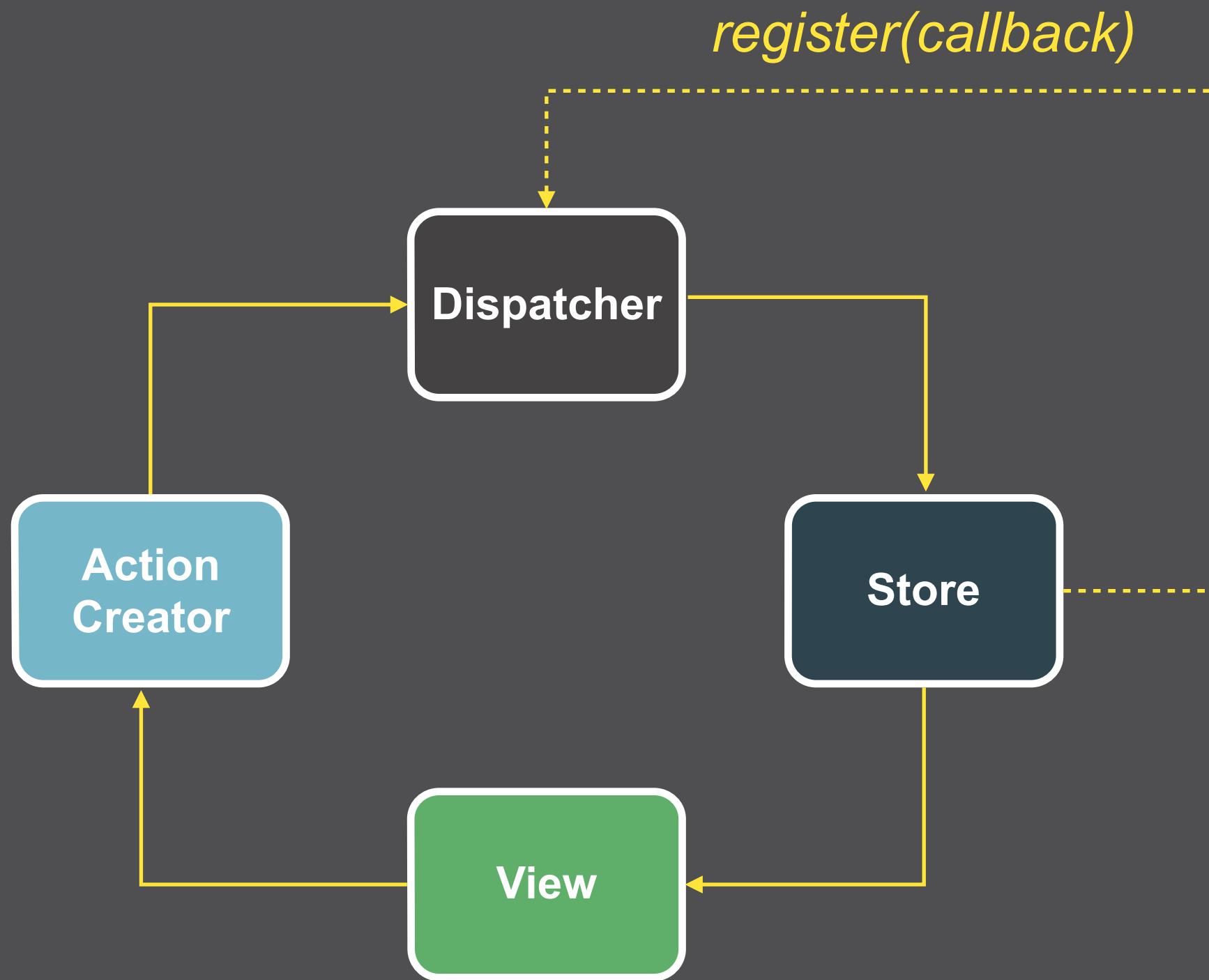


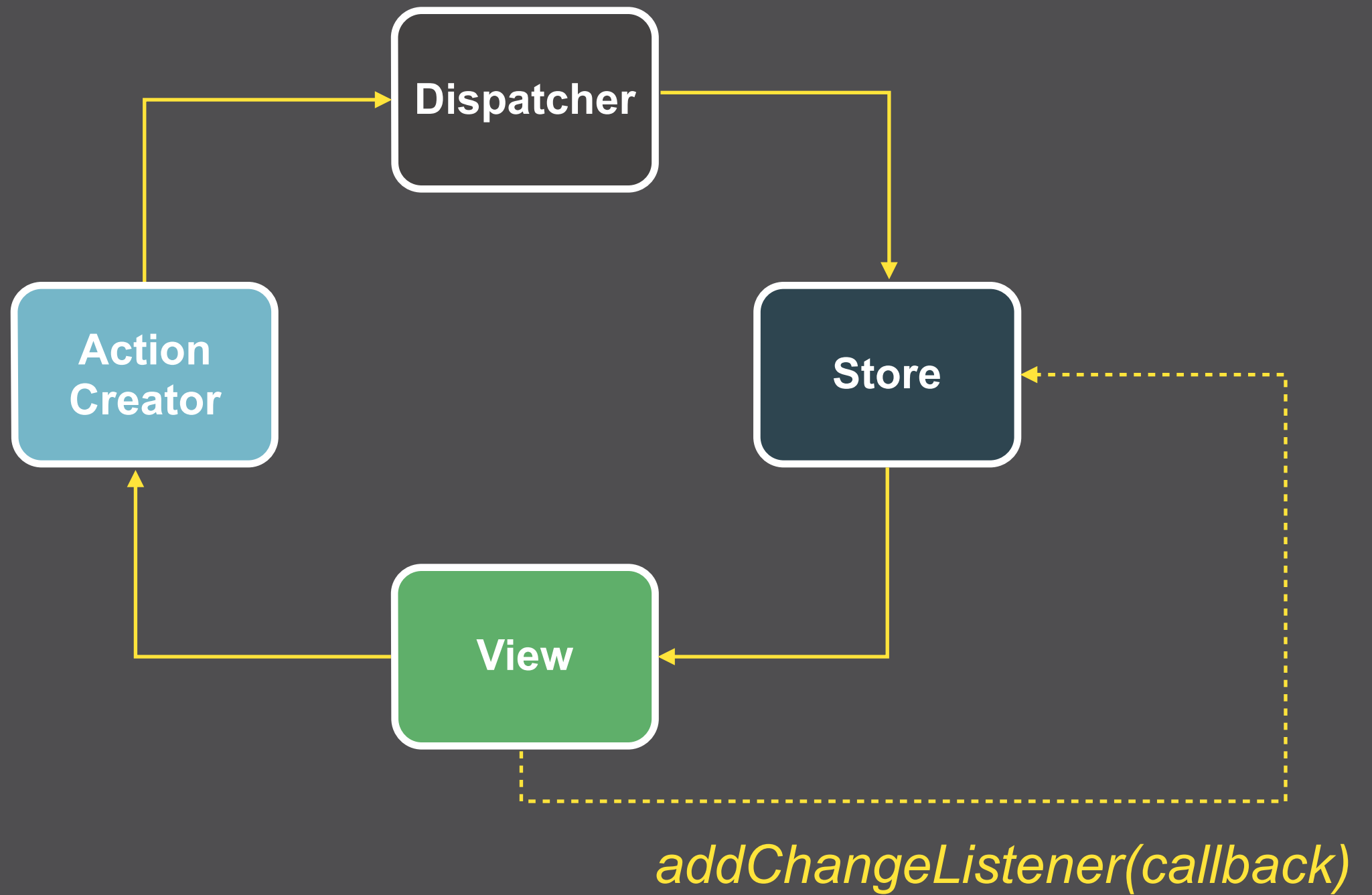
# Mental modell





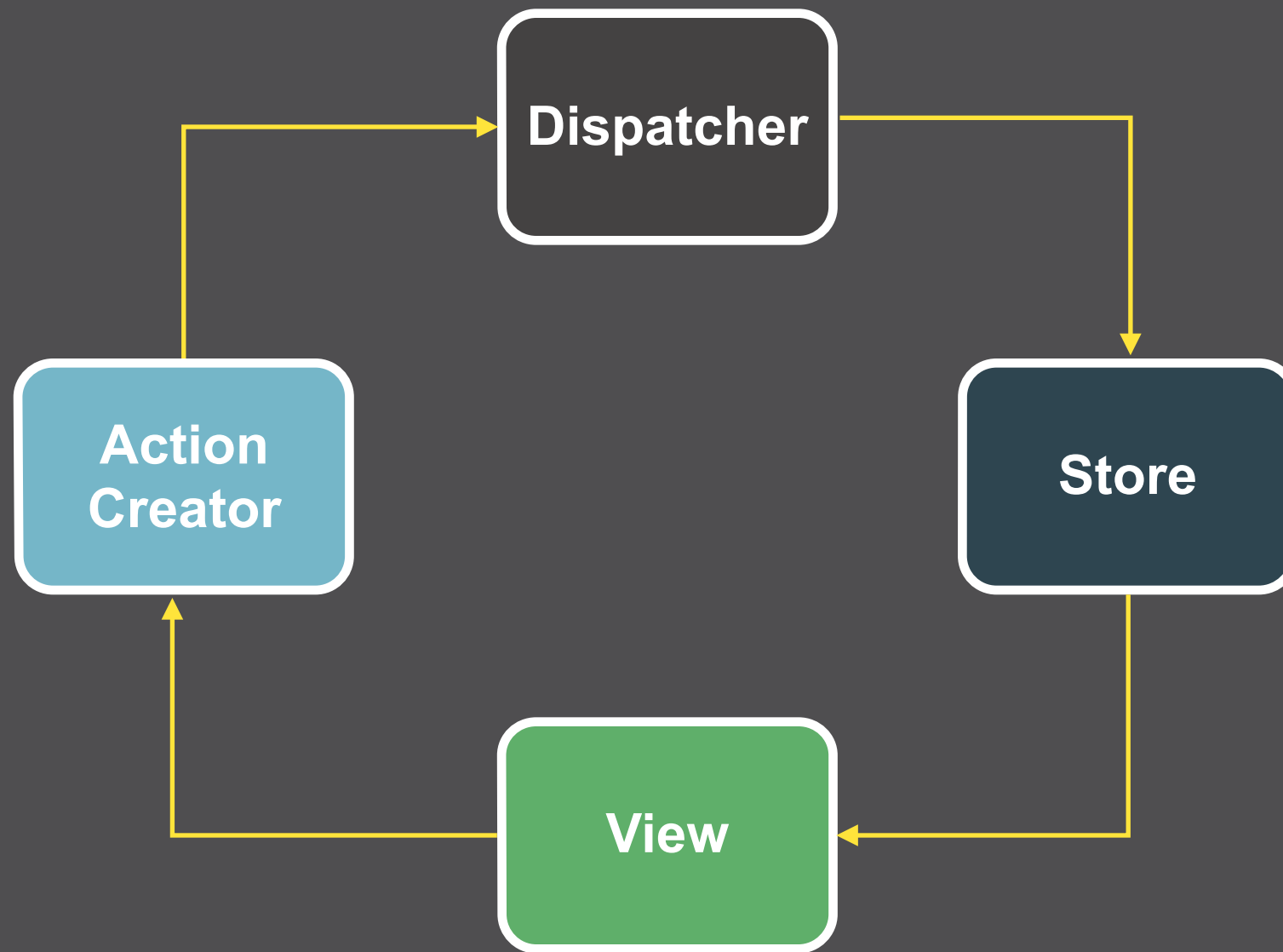
**Hvordan?**



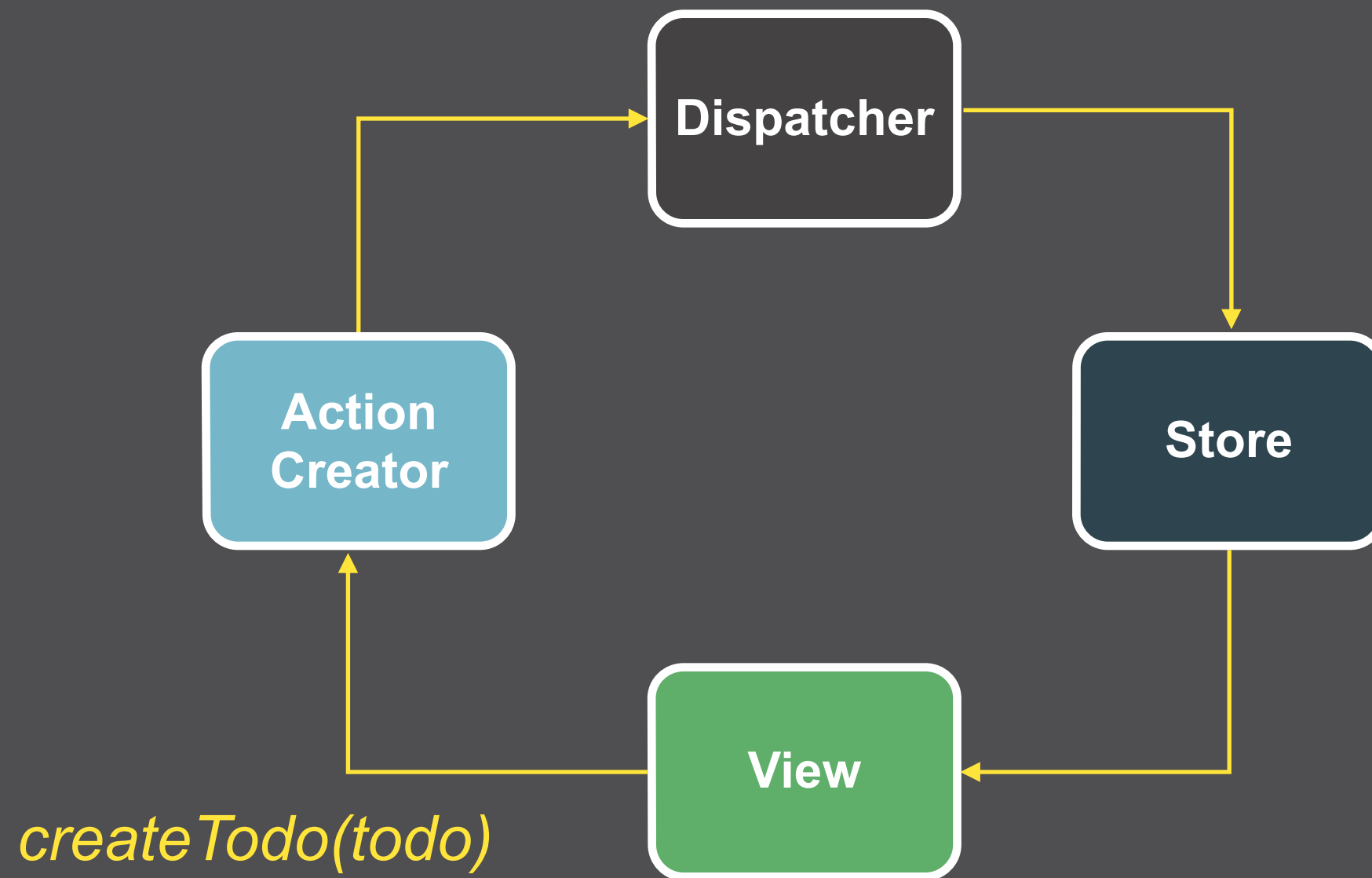


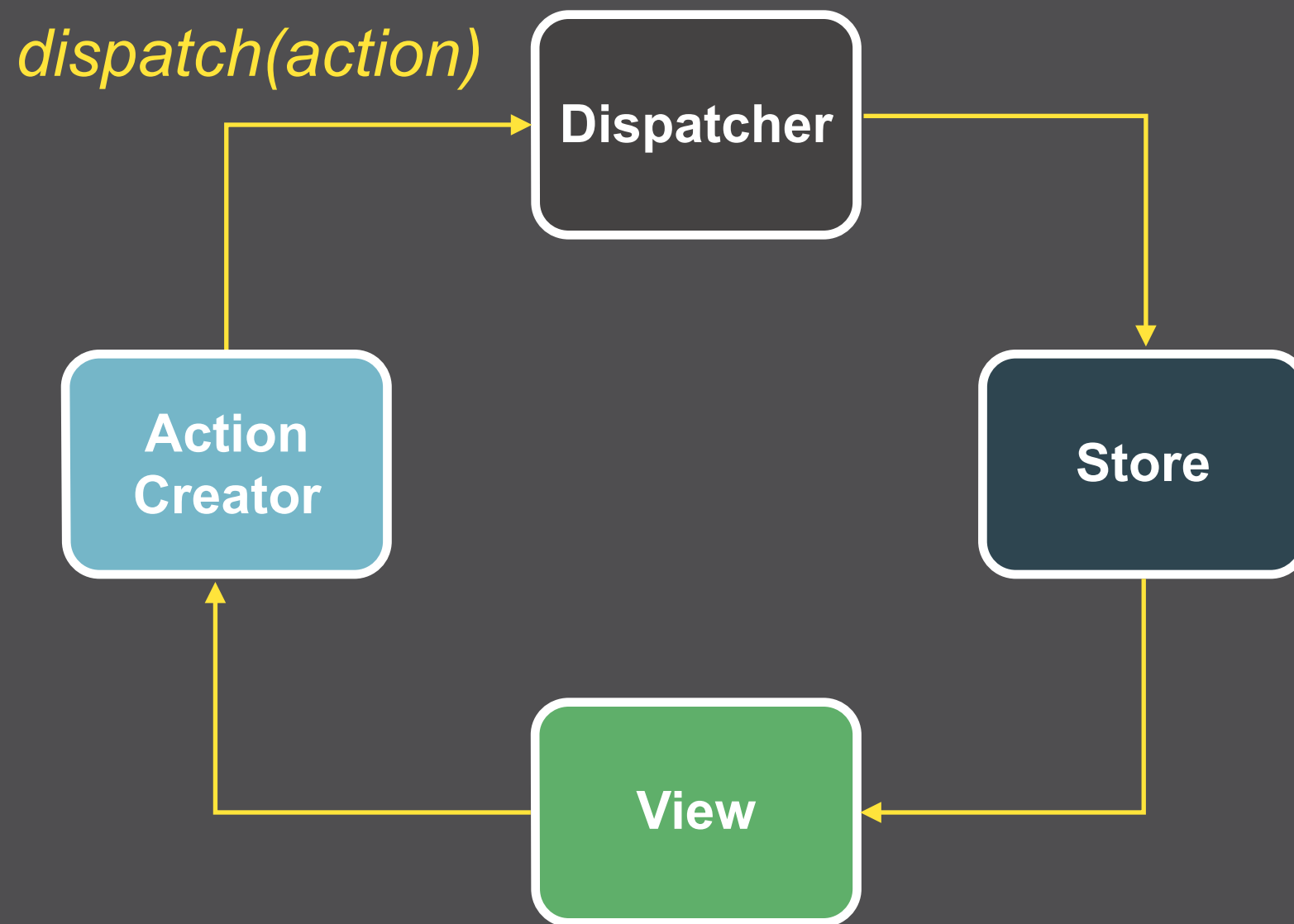
# Eksempelscenario

**En Todo-App!**

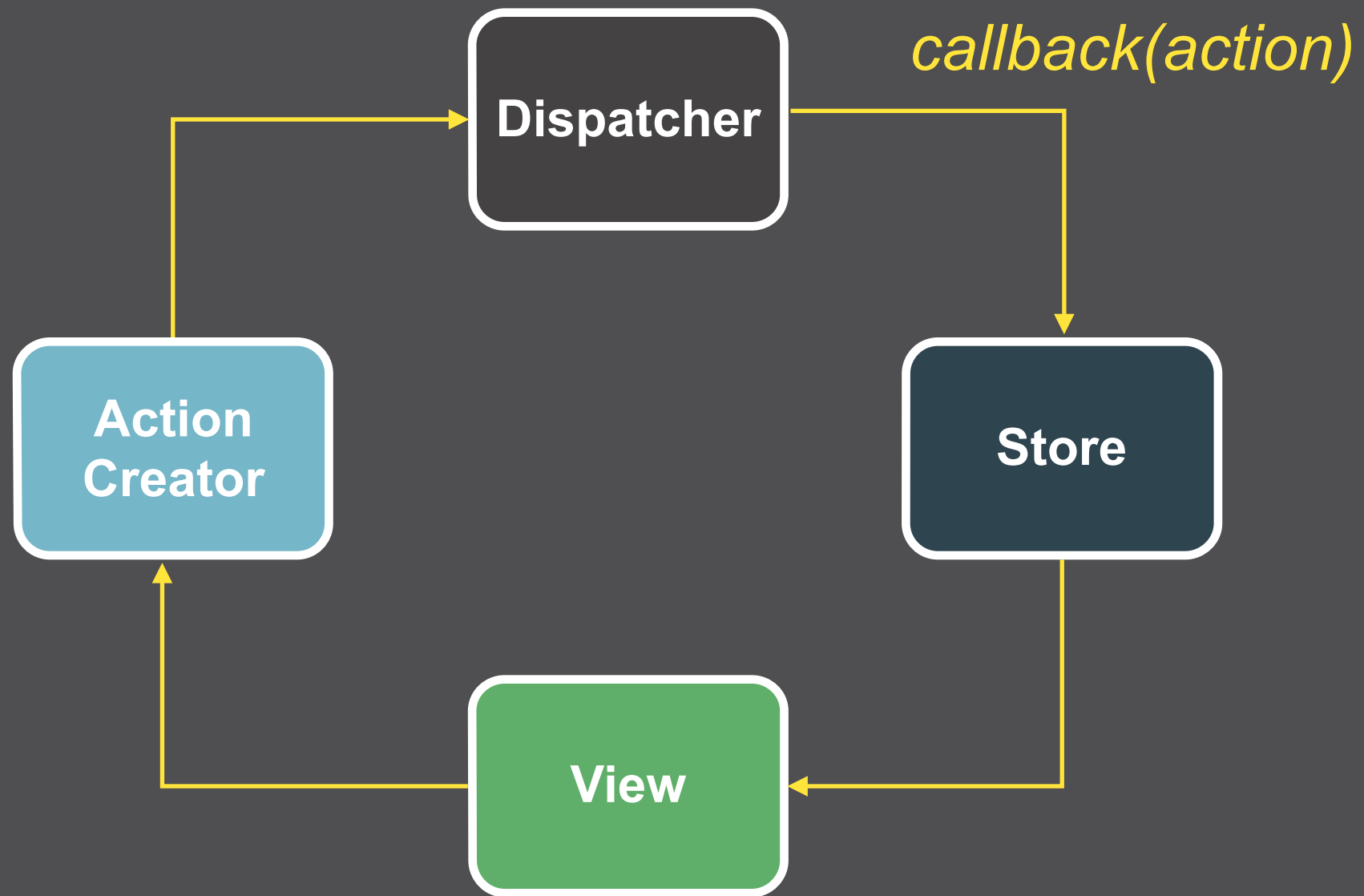


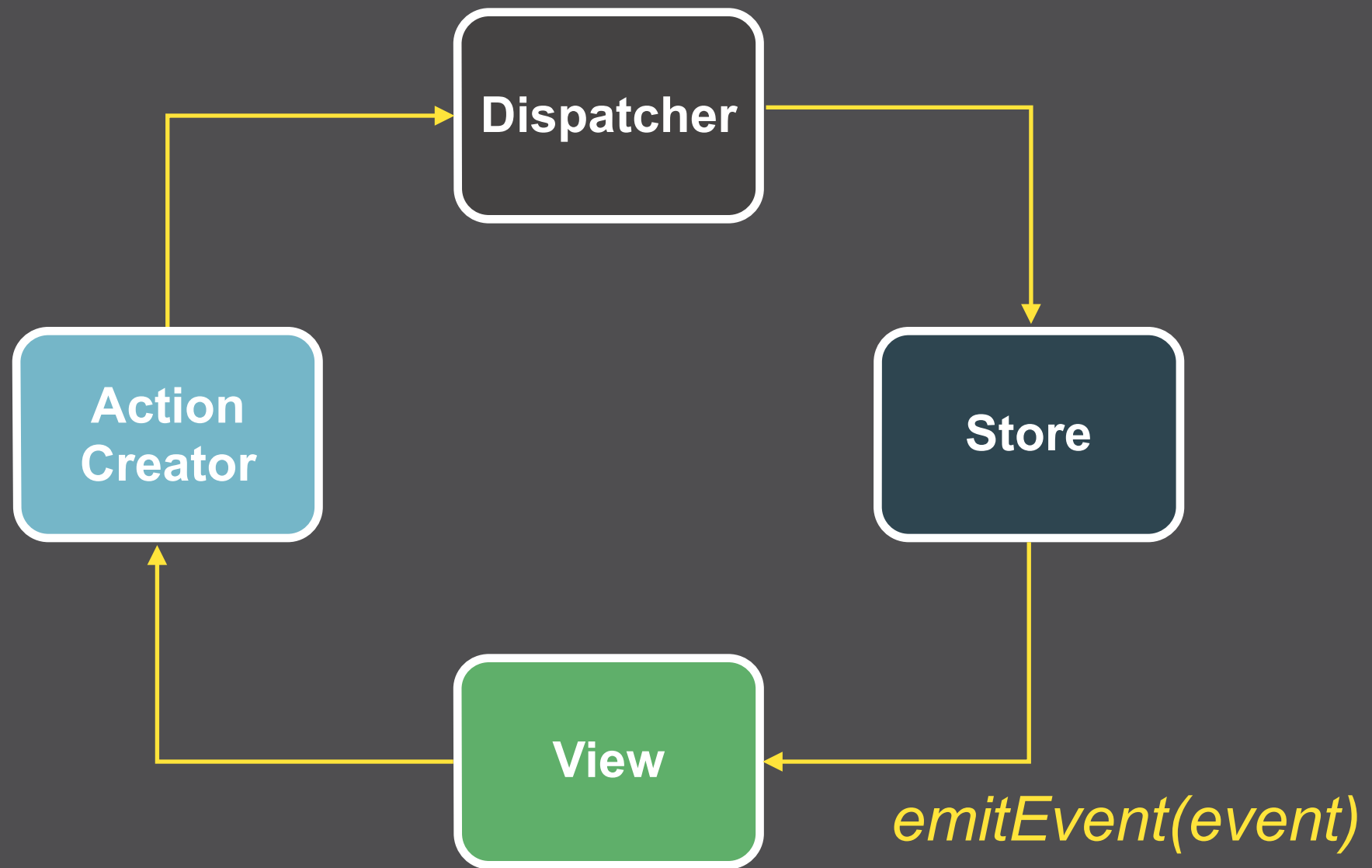
*<bruker trykket på "Lag ny todo">*

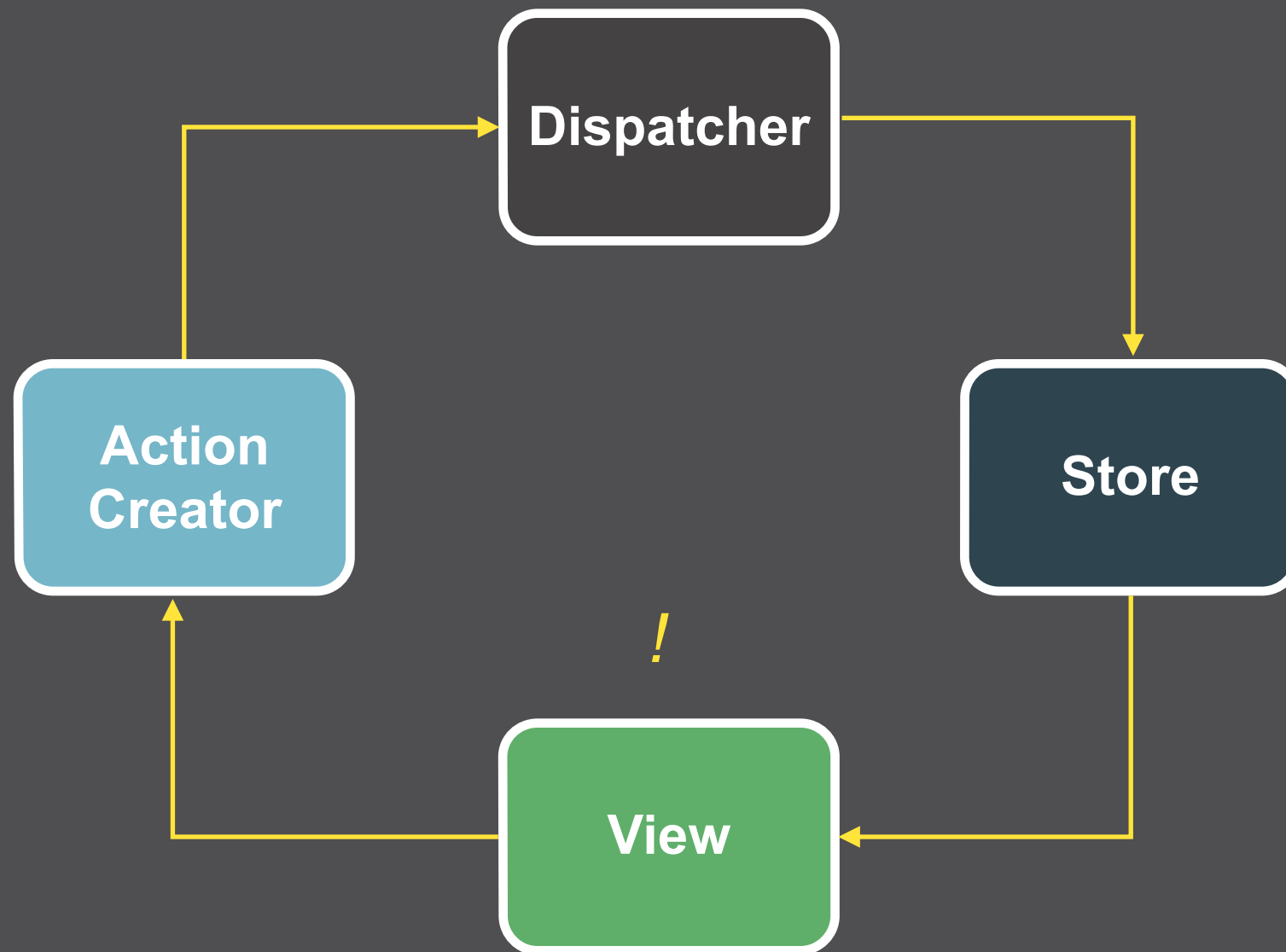


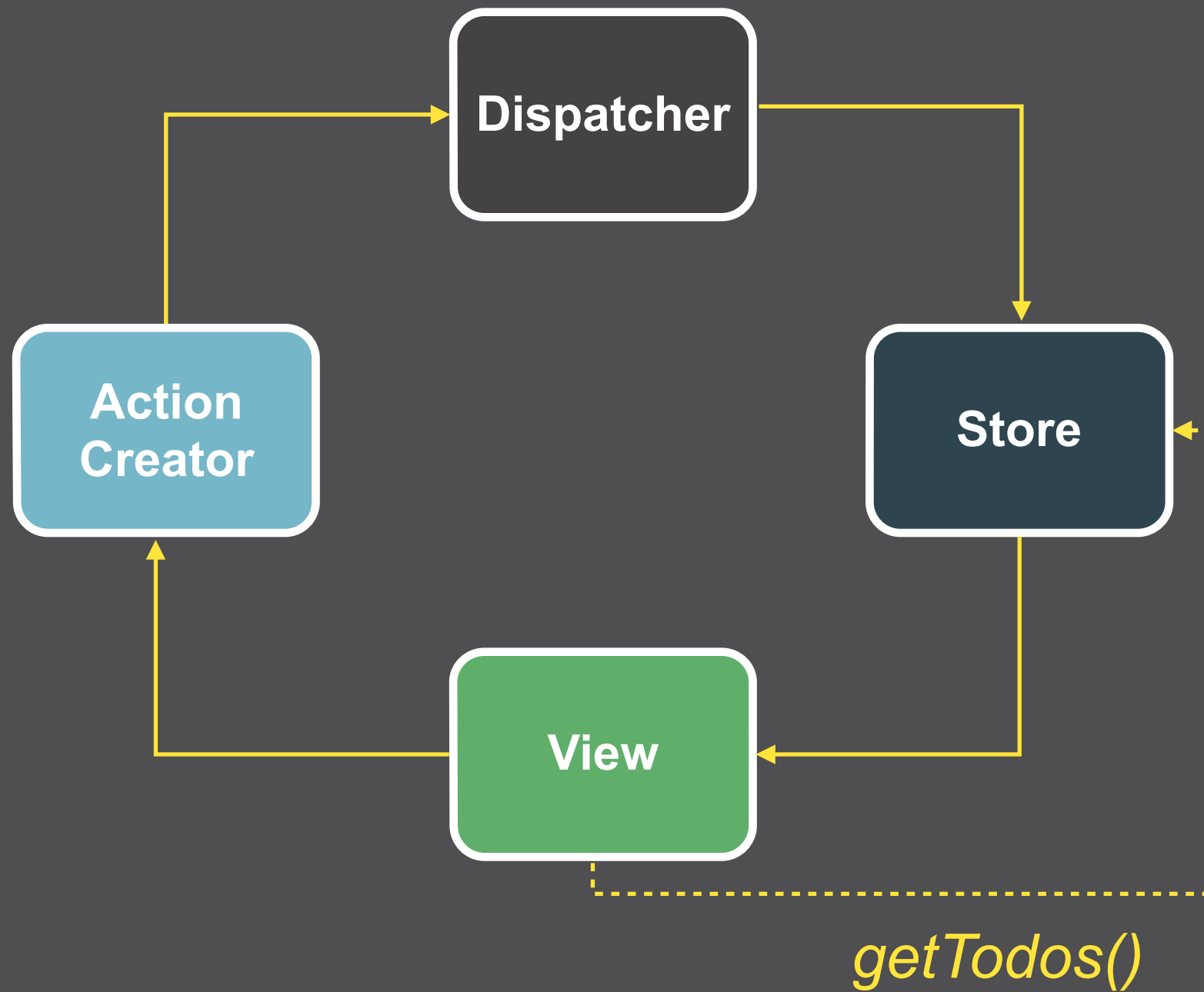


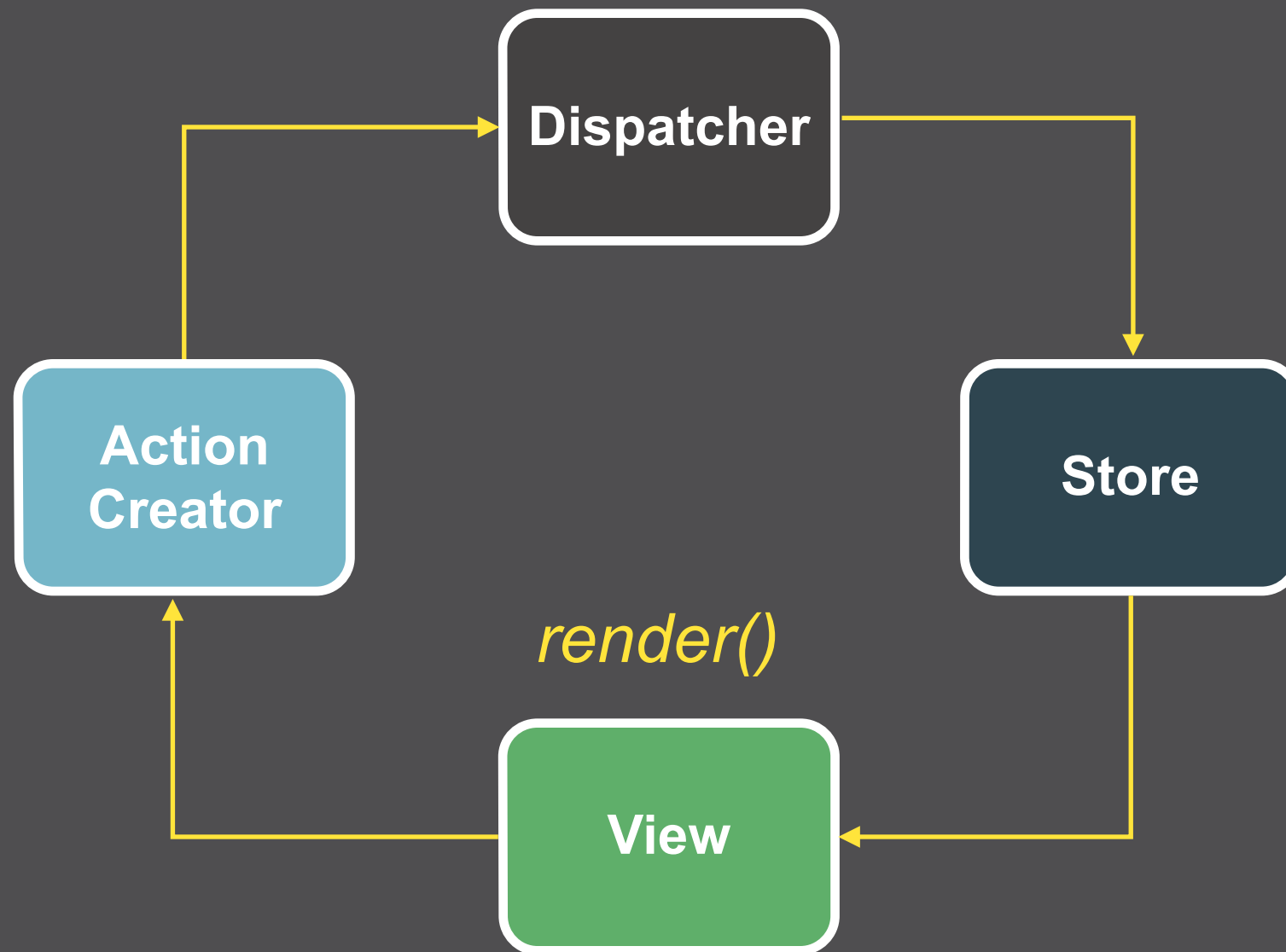


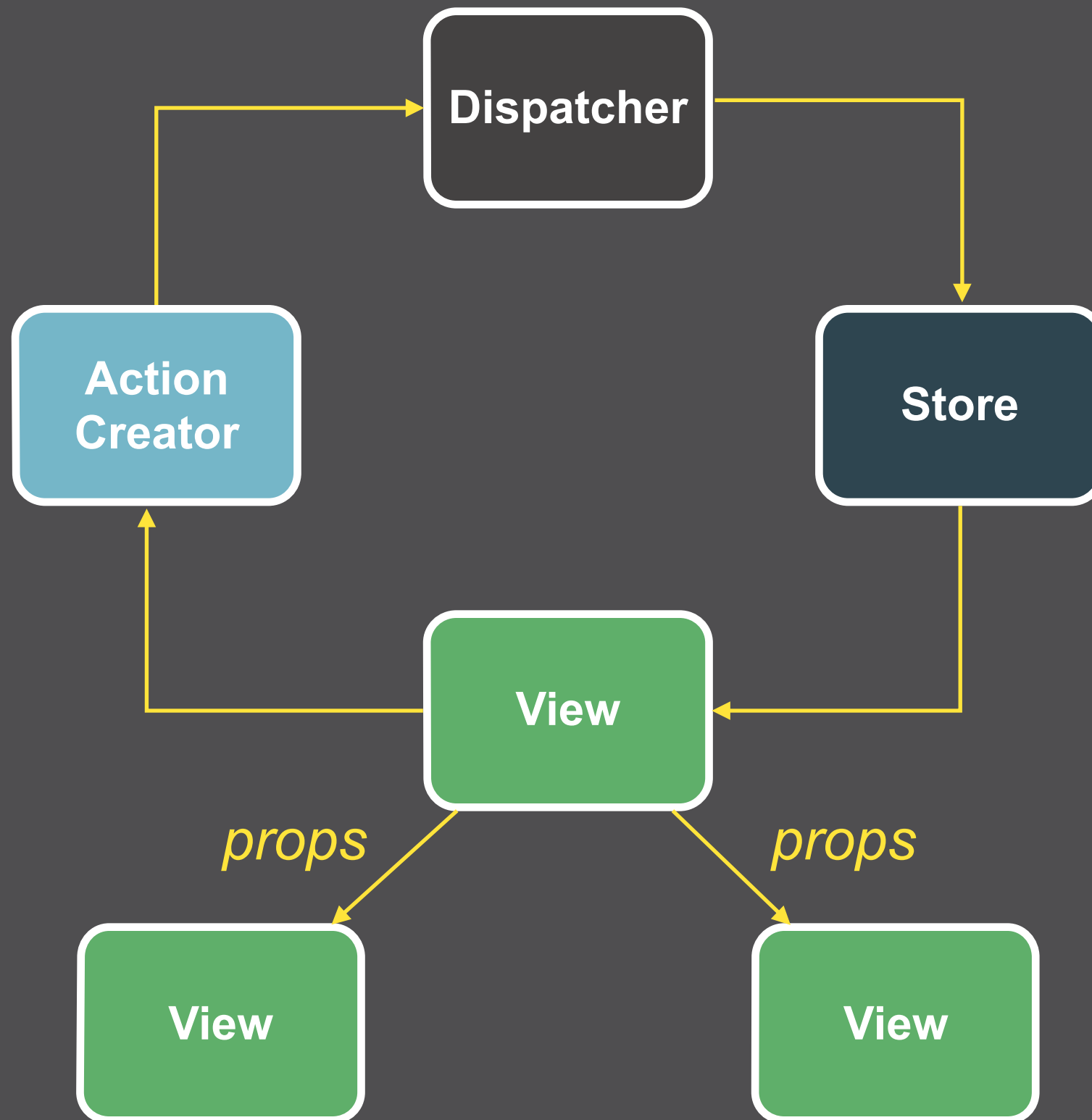


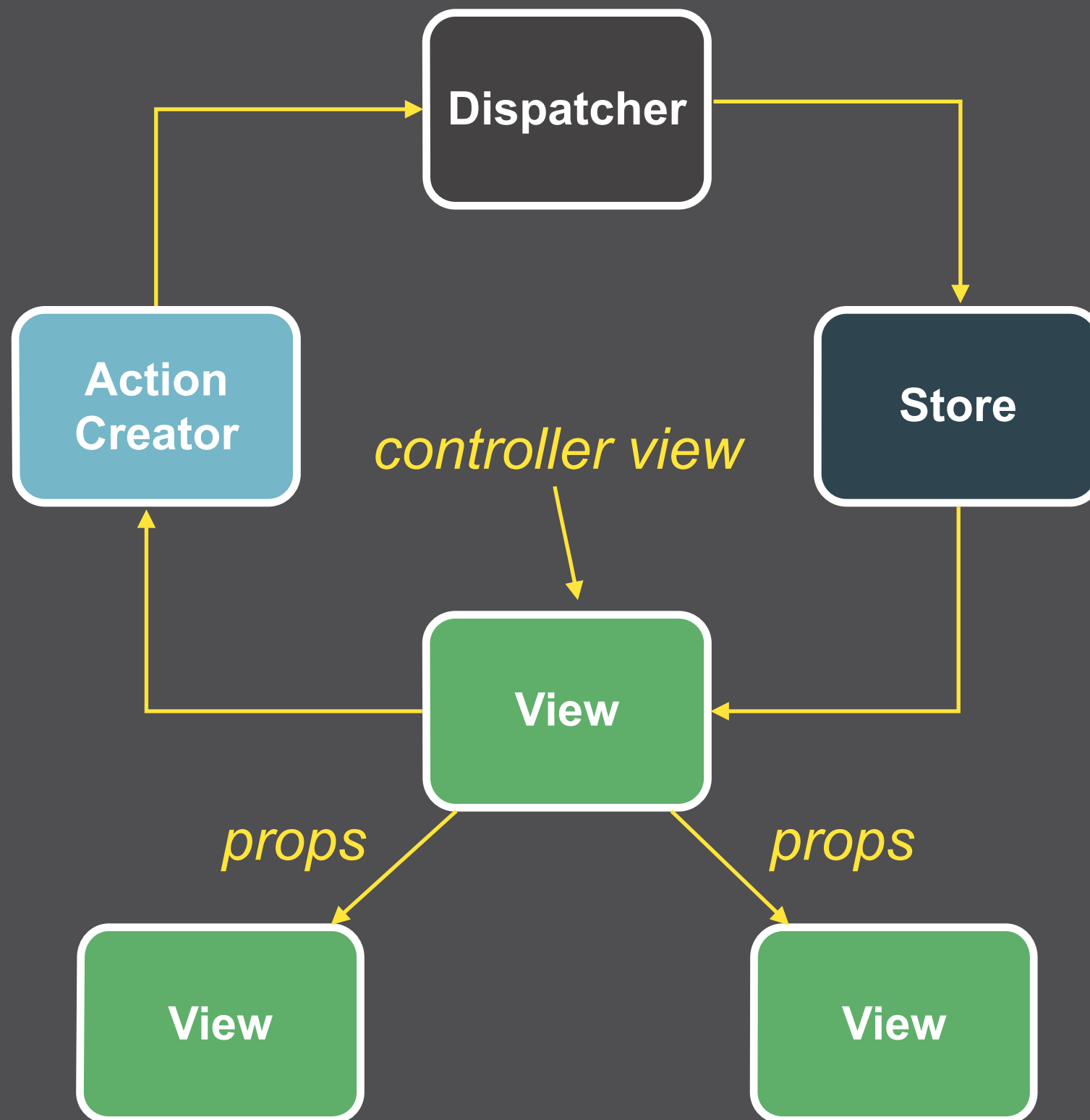






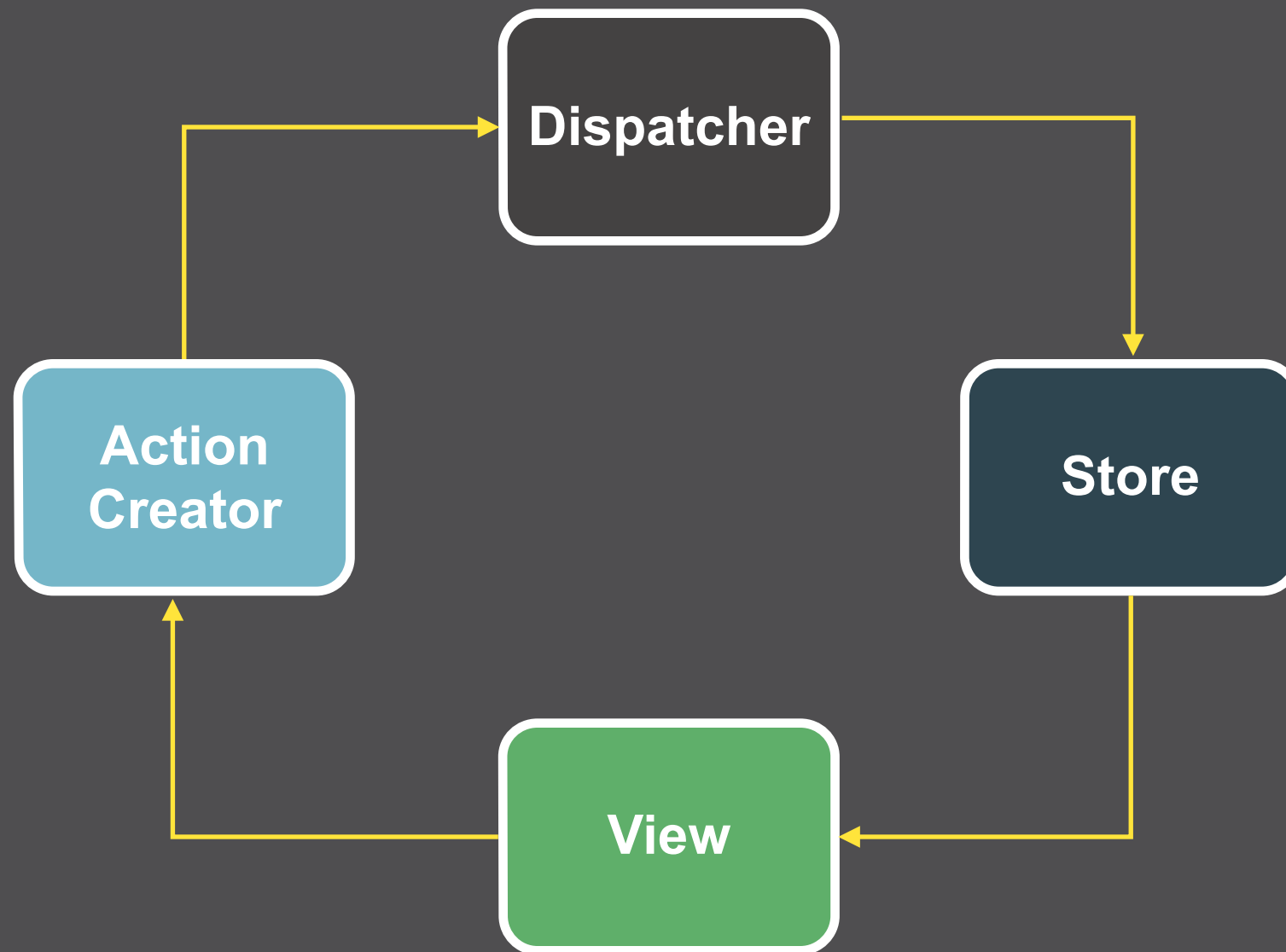


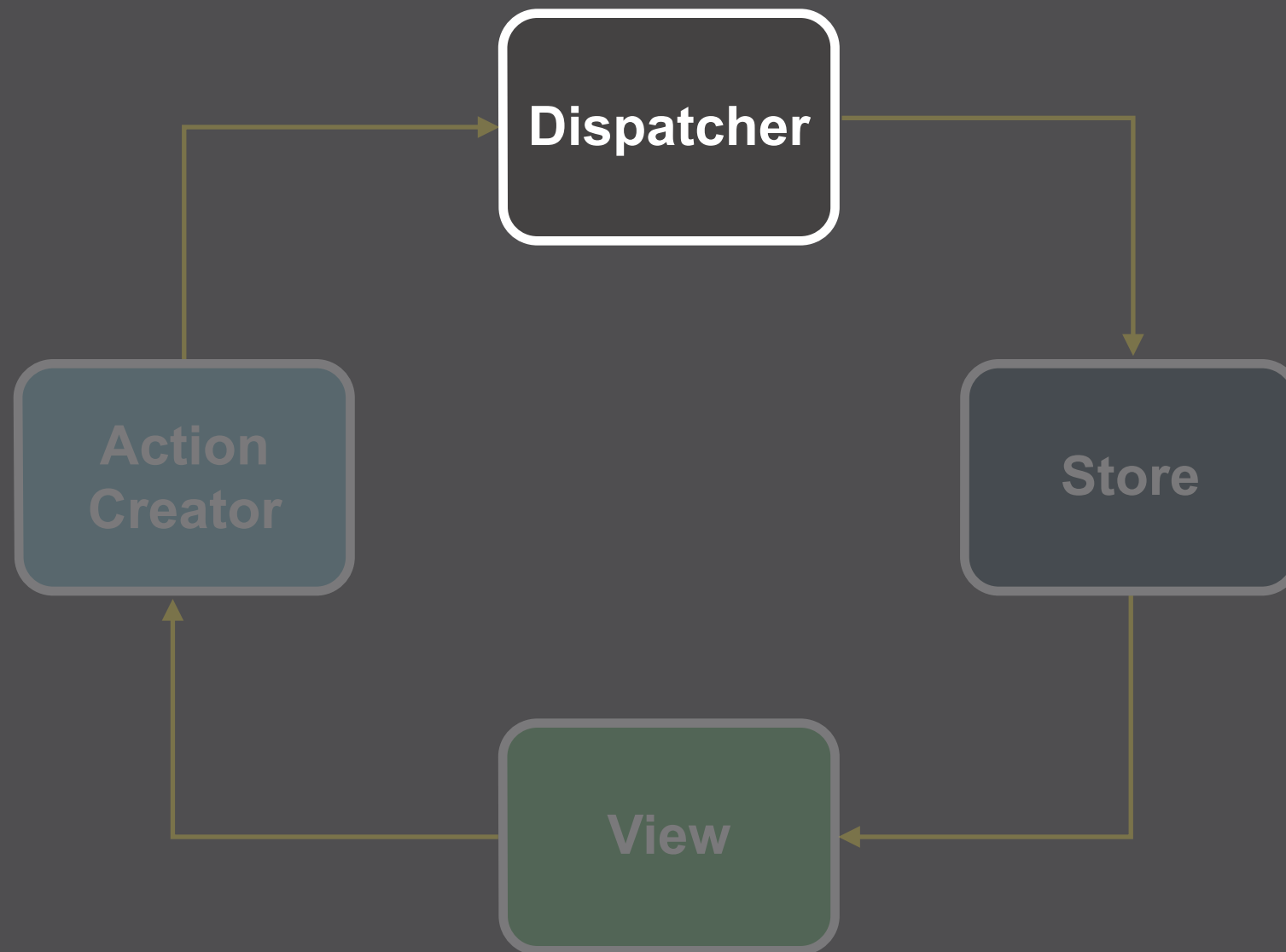




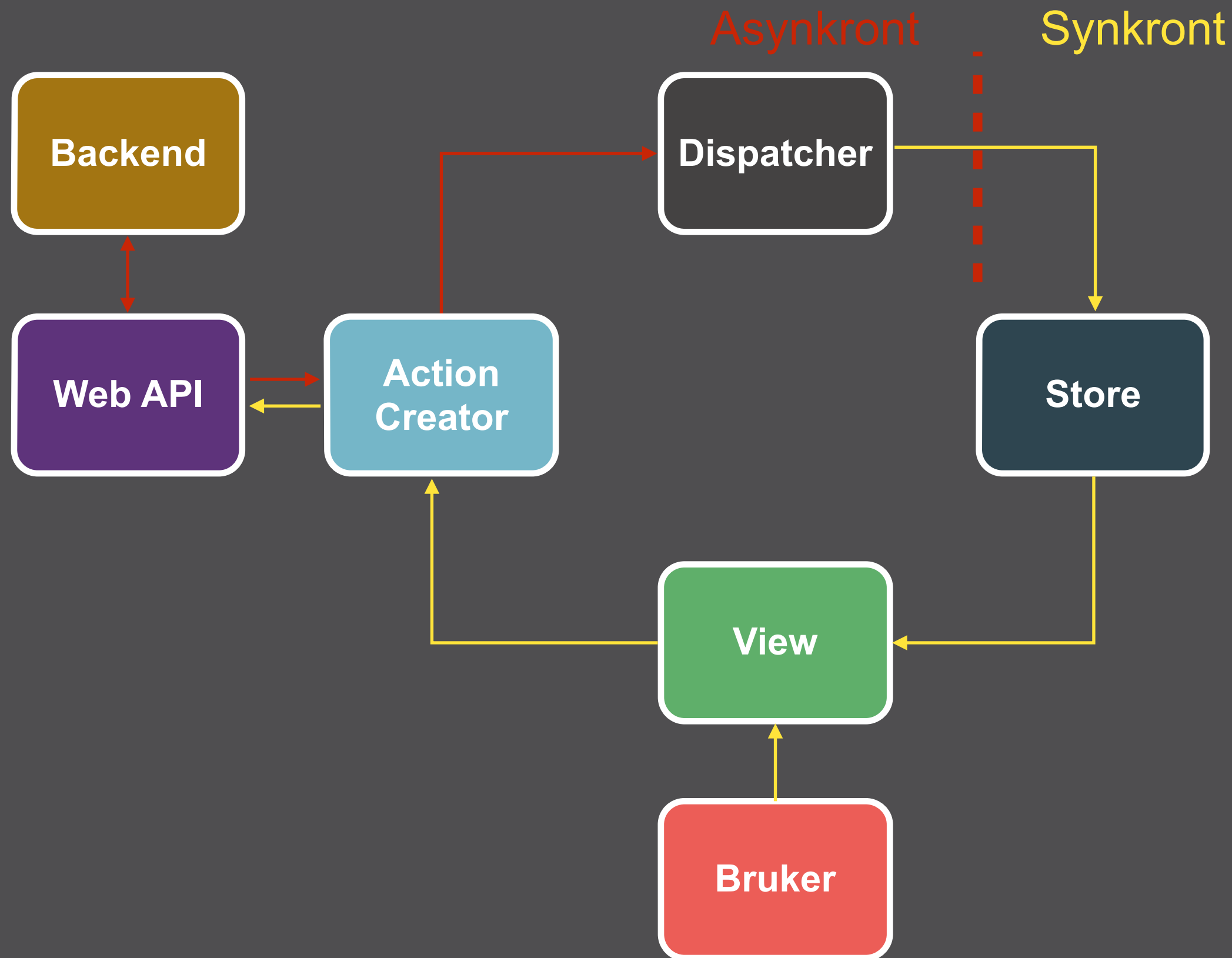
# Centrale komponenter



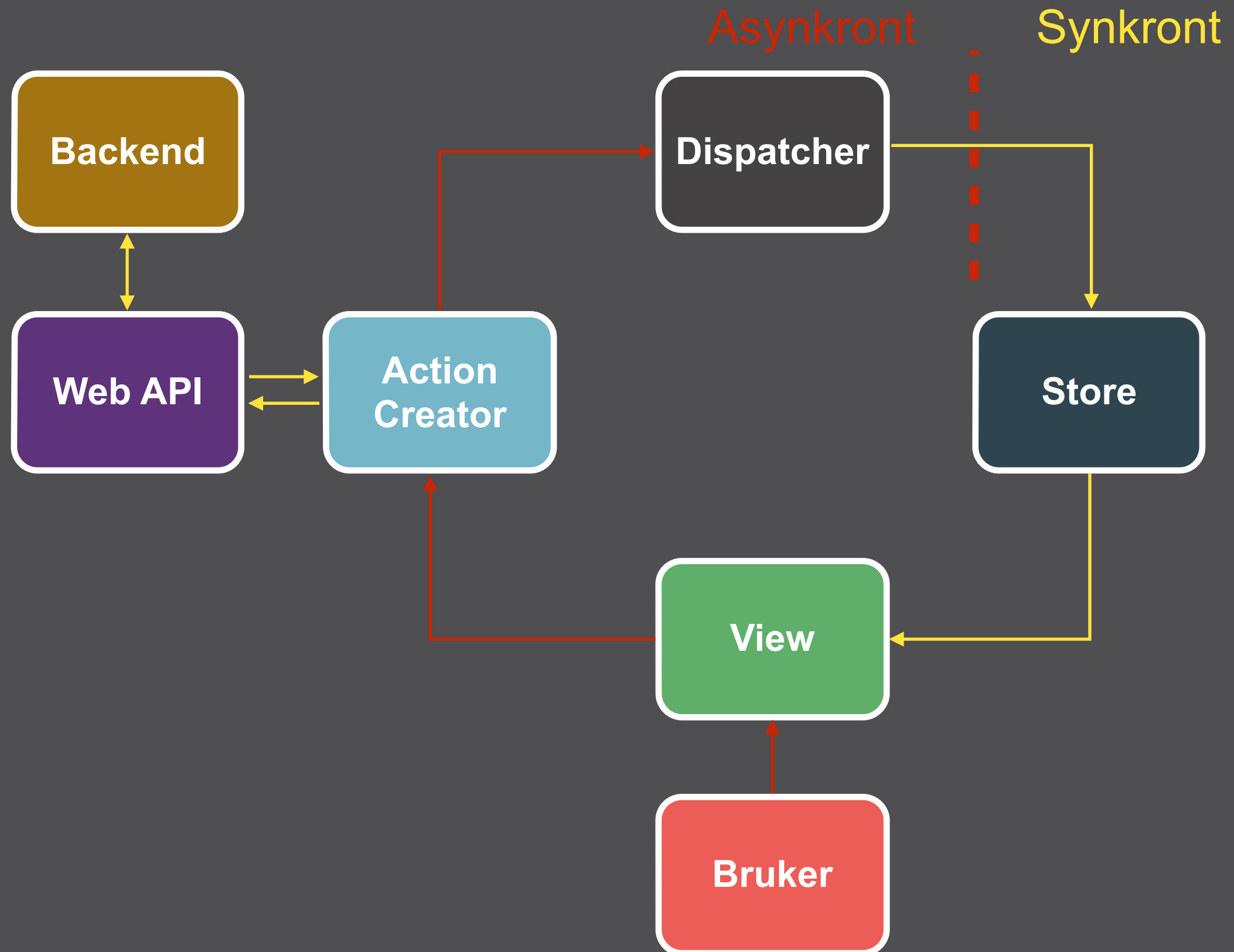




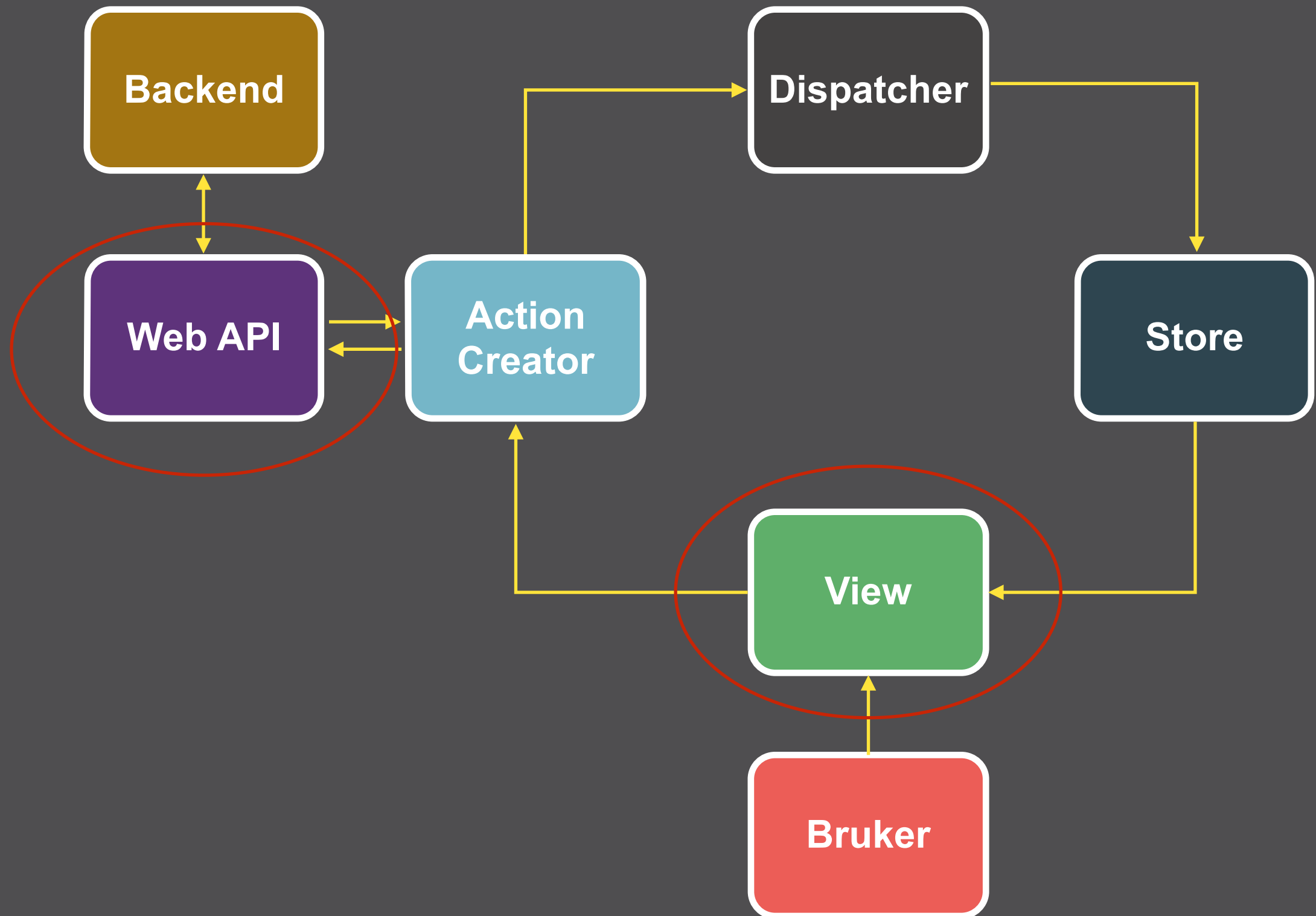
# Async “barriere”



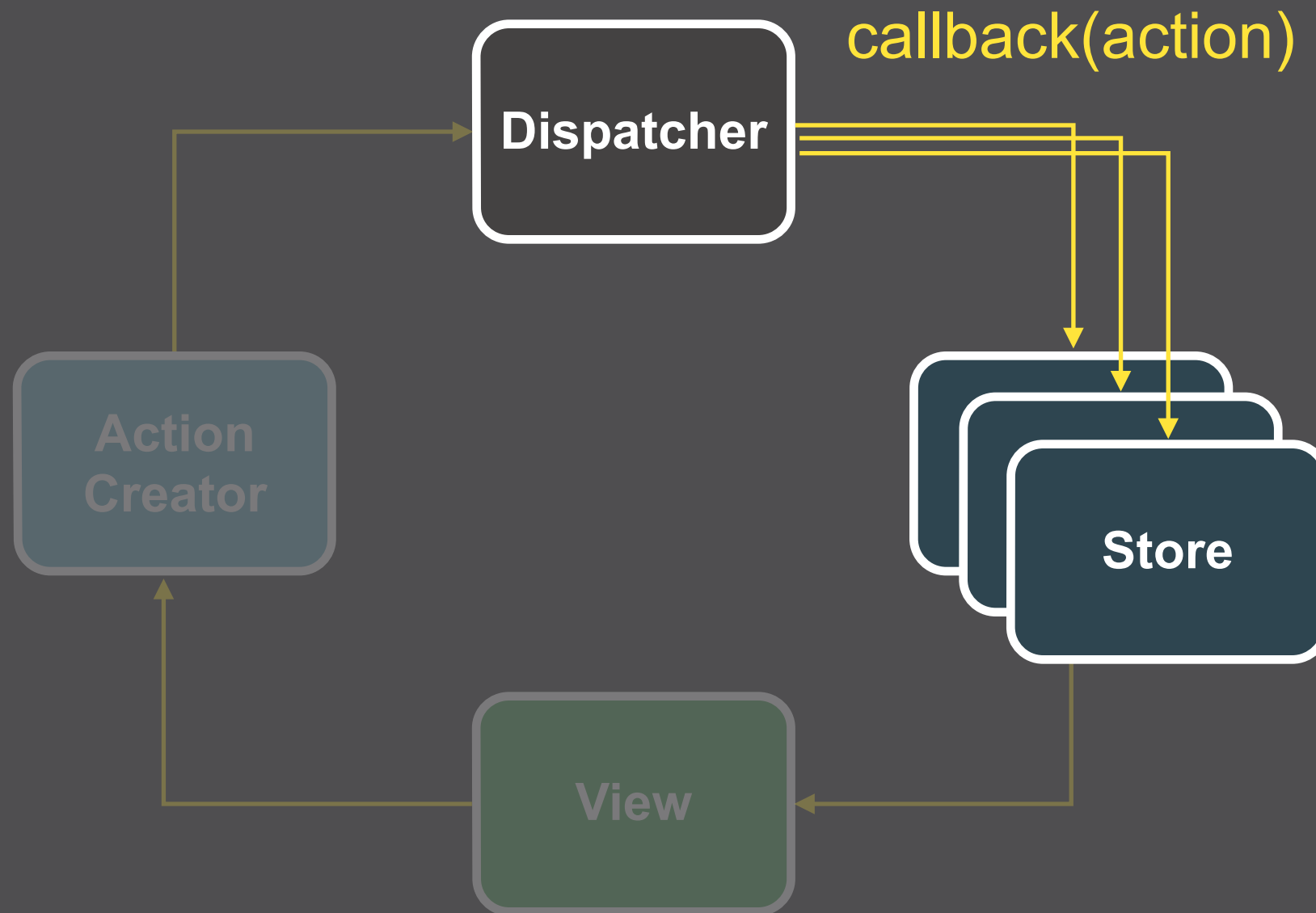
# Async “barriere”



# Isolering av async



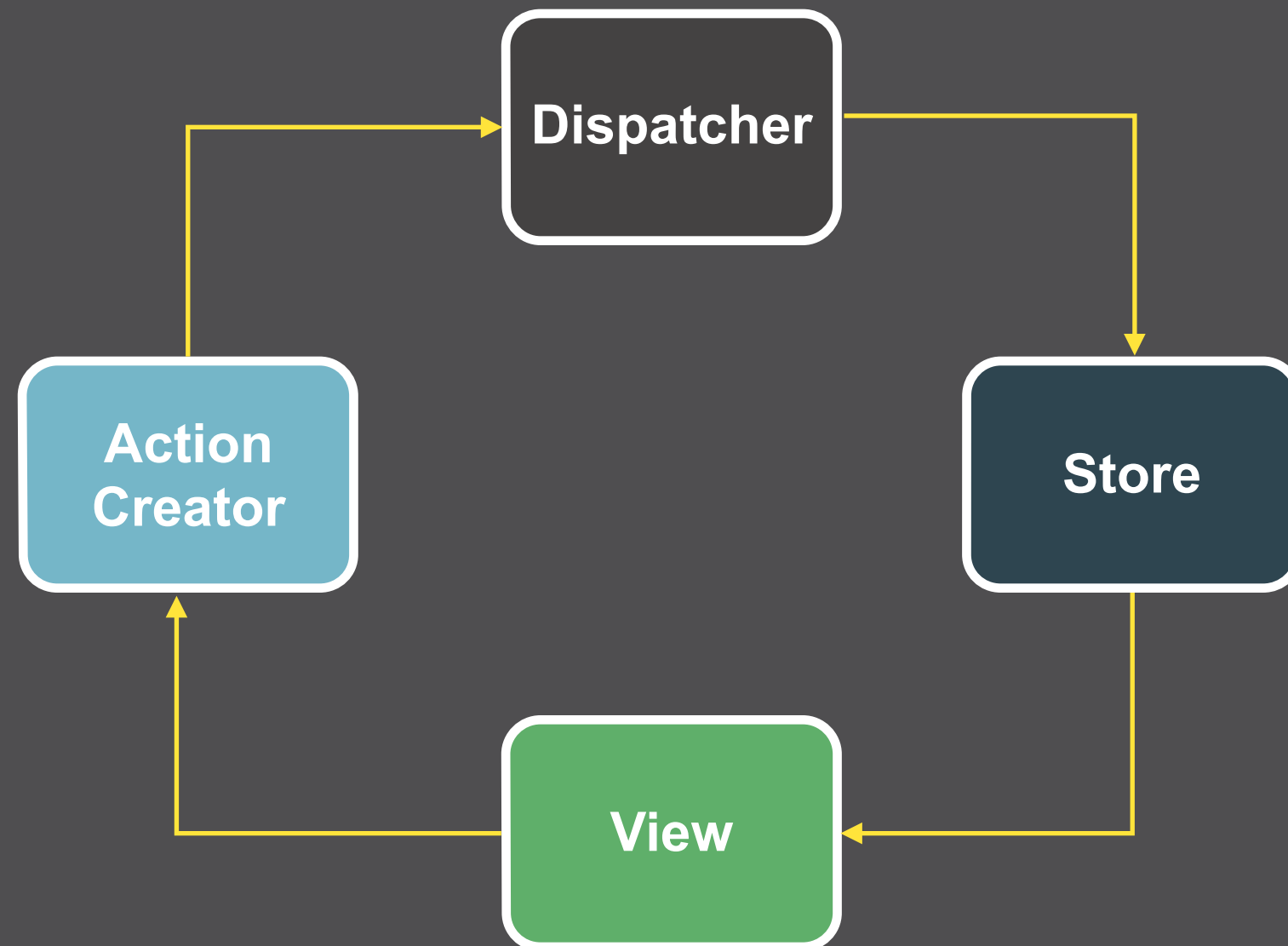
# Broadcasting



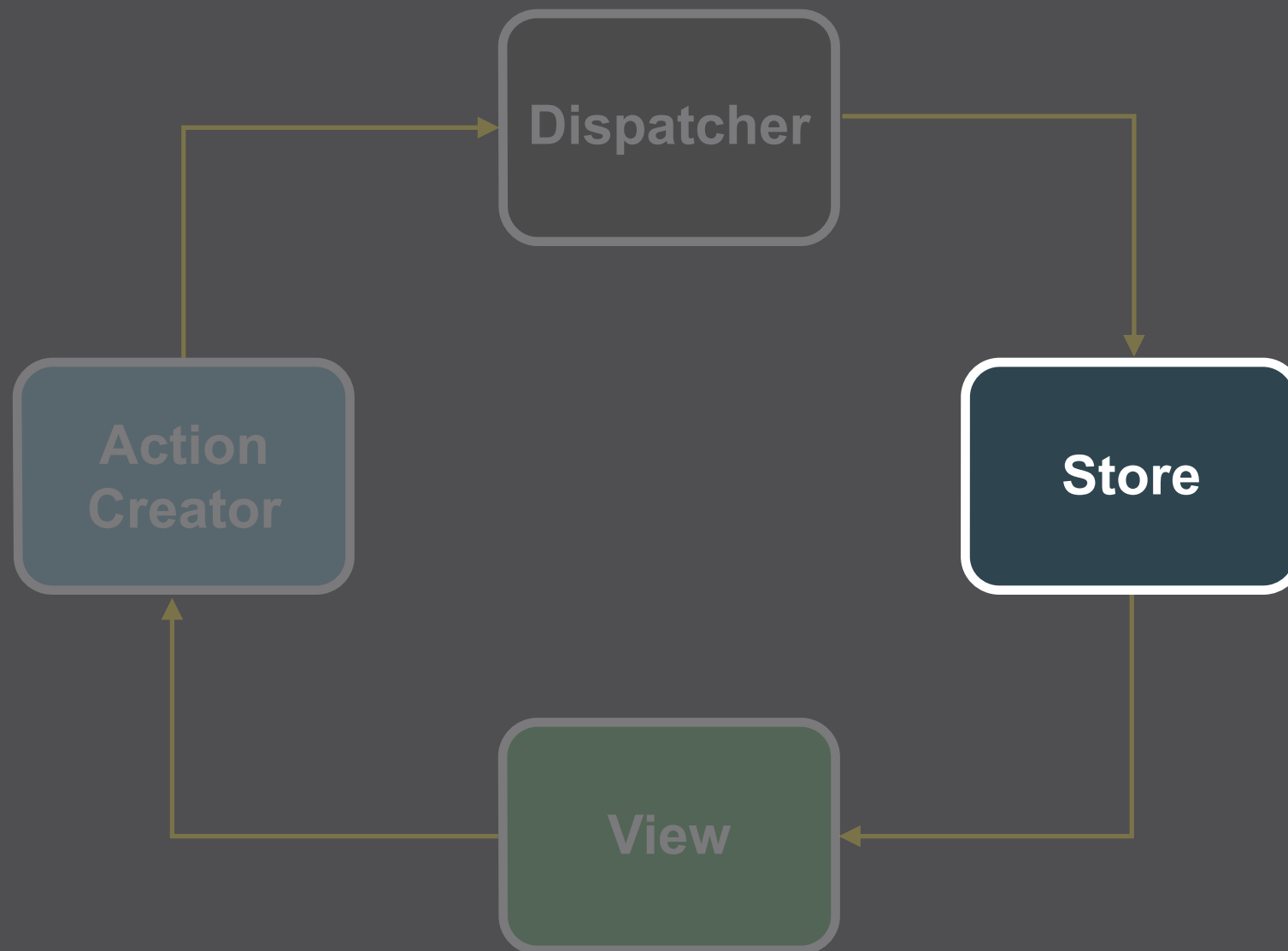


## Dispatcher

- Avhengigheter mellom stores: *waitFor([ ] ids)*
- *dispatch(payload), register(callback), unregister(id)*
- Forhindrer samtidige dispatches
- Barriere mellom asynkront/synkront





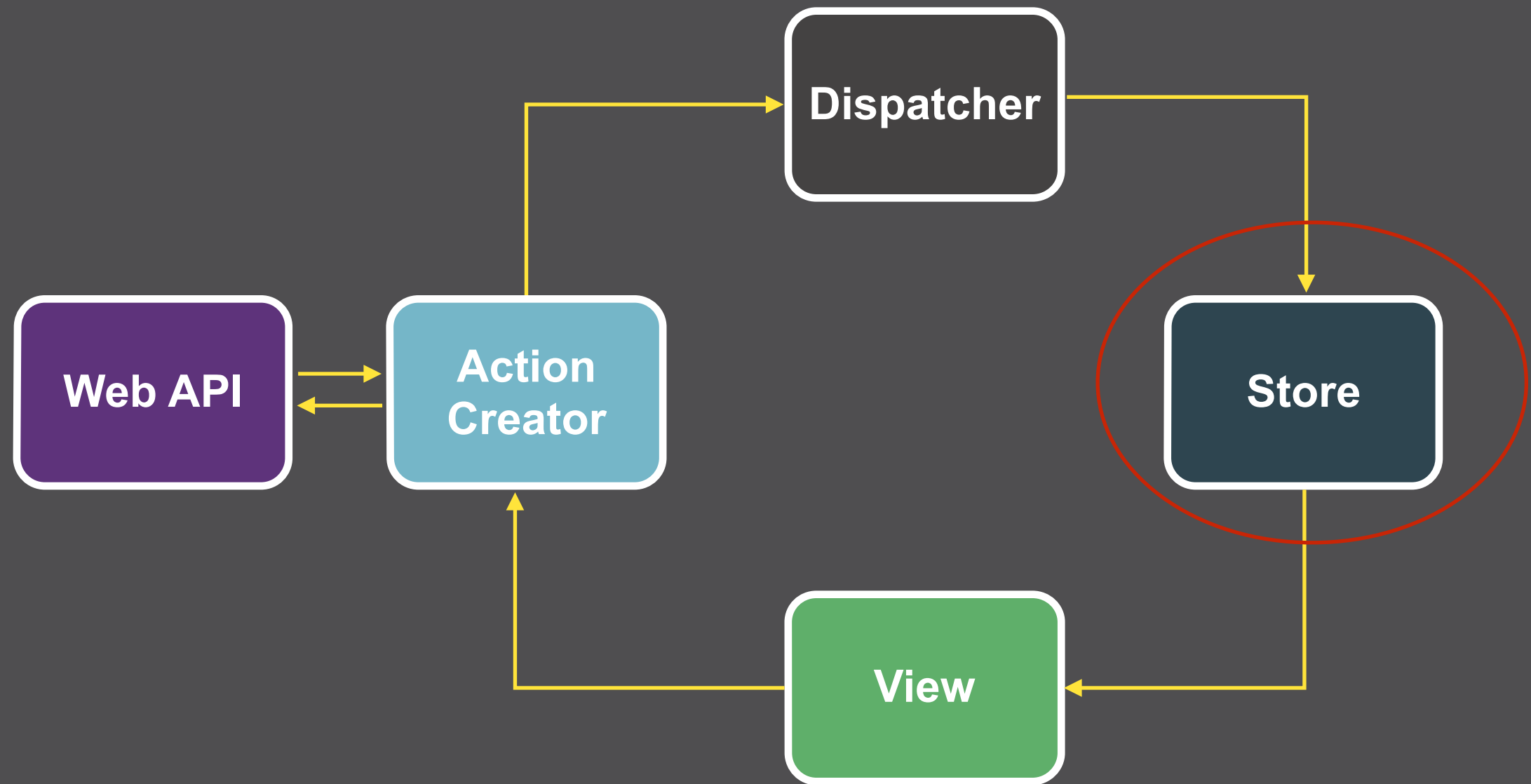


A dark blue rounded rectangle with a white border, containing the word "Store" in white text.

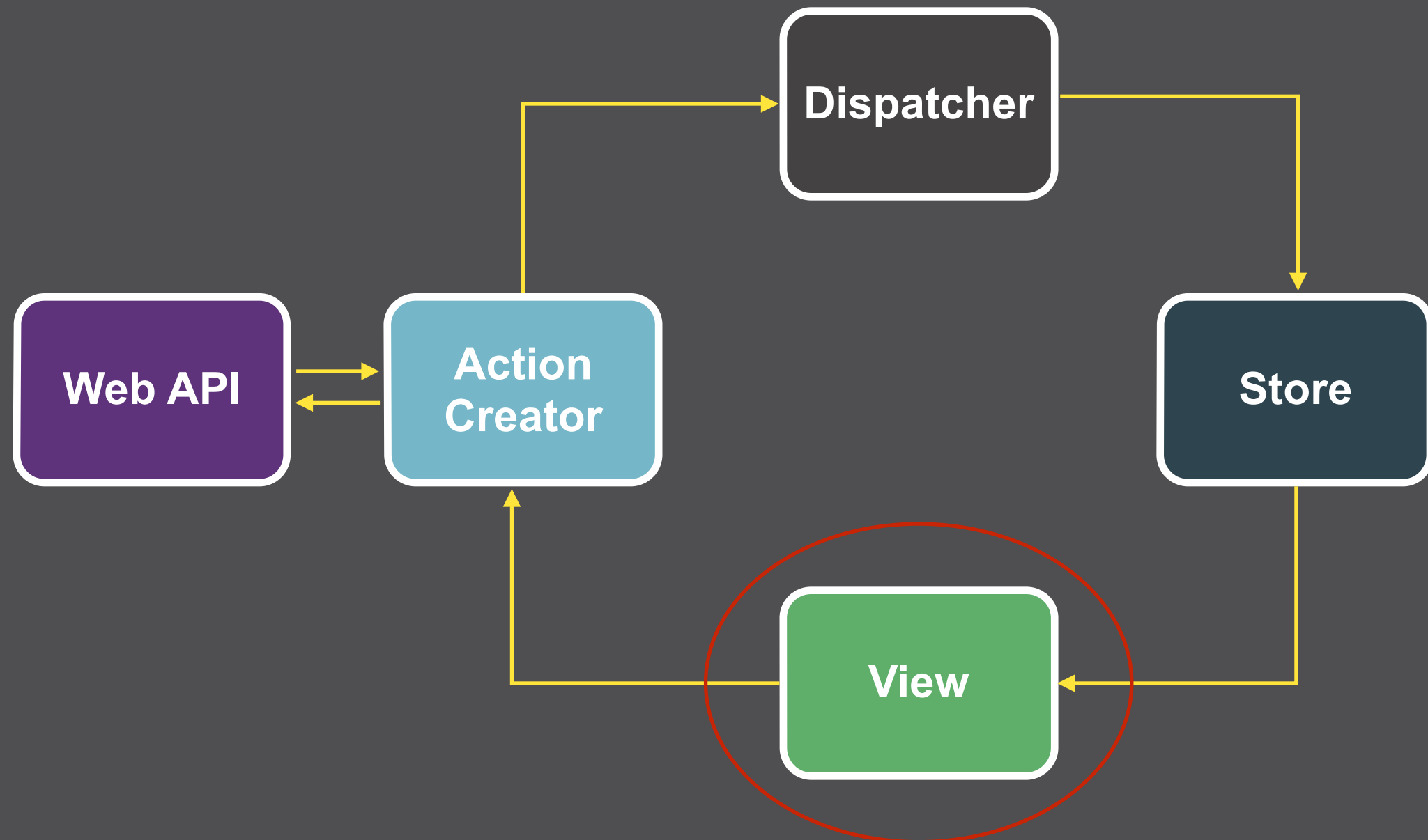
## Store

- Registrer seg hos dispatcher vha *register(callback)*
- Inneholder all forretningslogikk og tilstand
- Én store for hvert domene
- Oppdaterer views via events (EventEmitter)

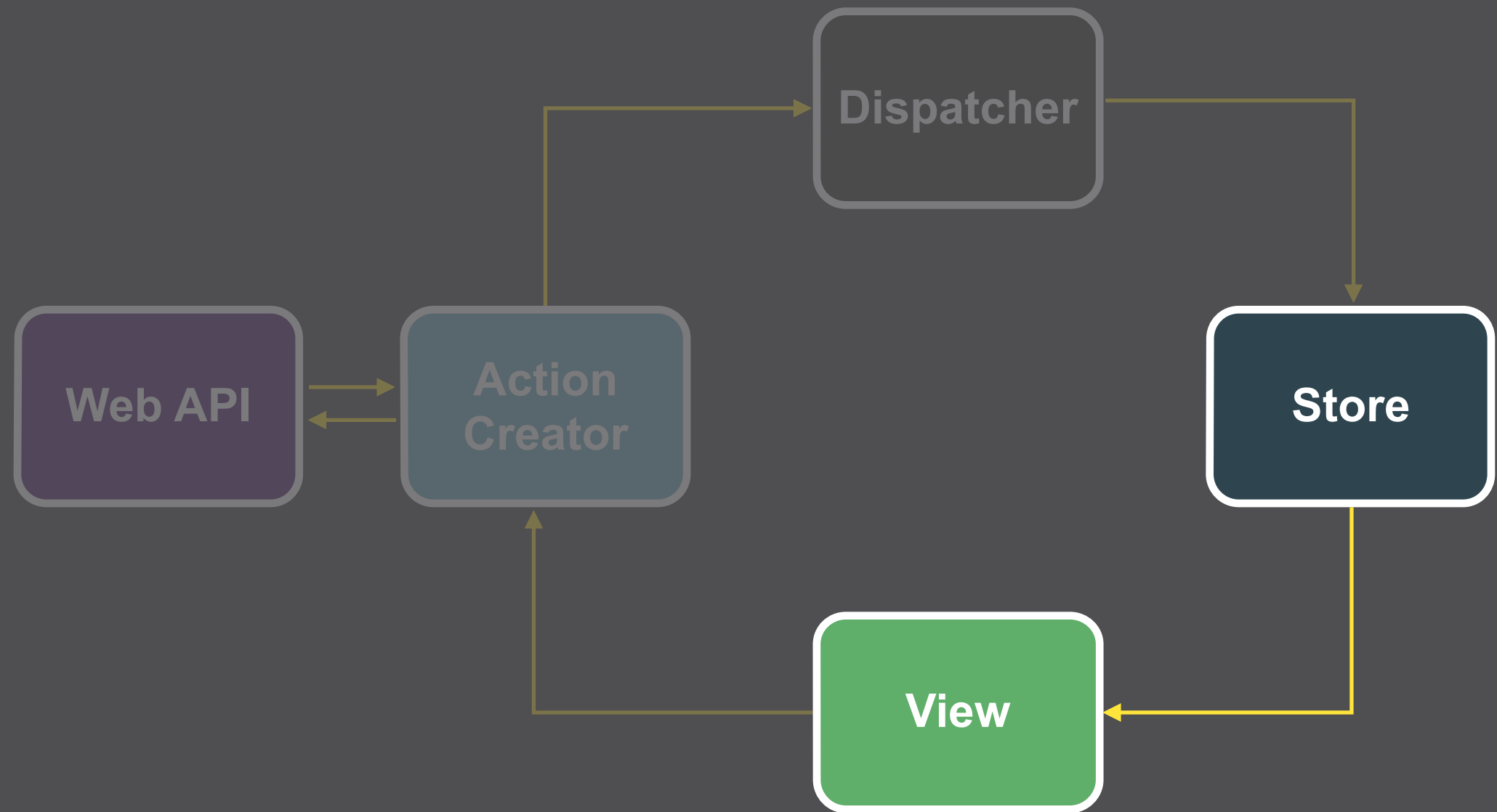
# Isolering av tilstand



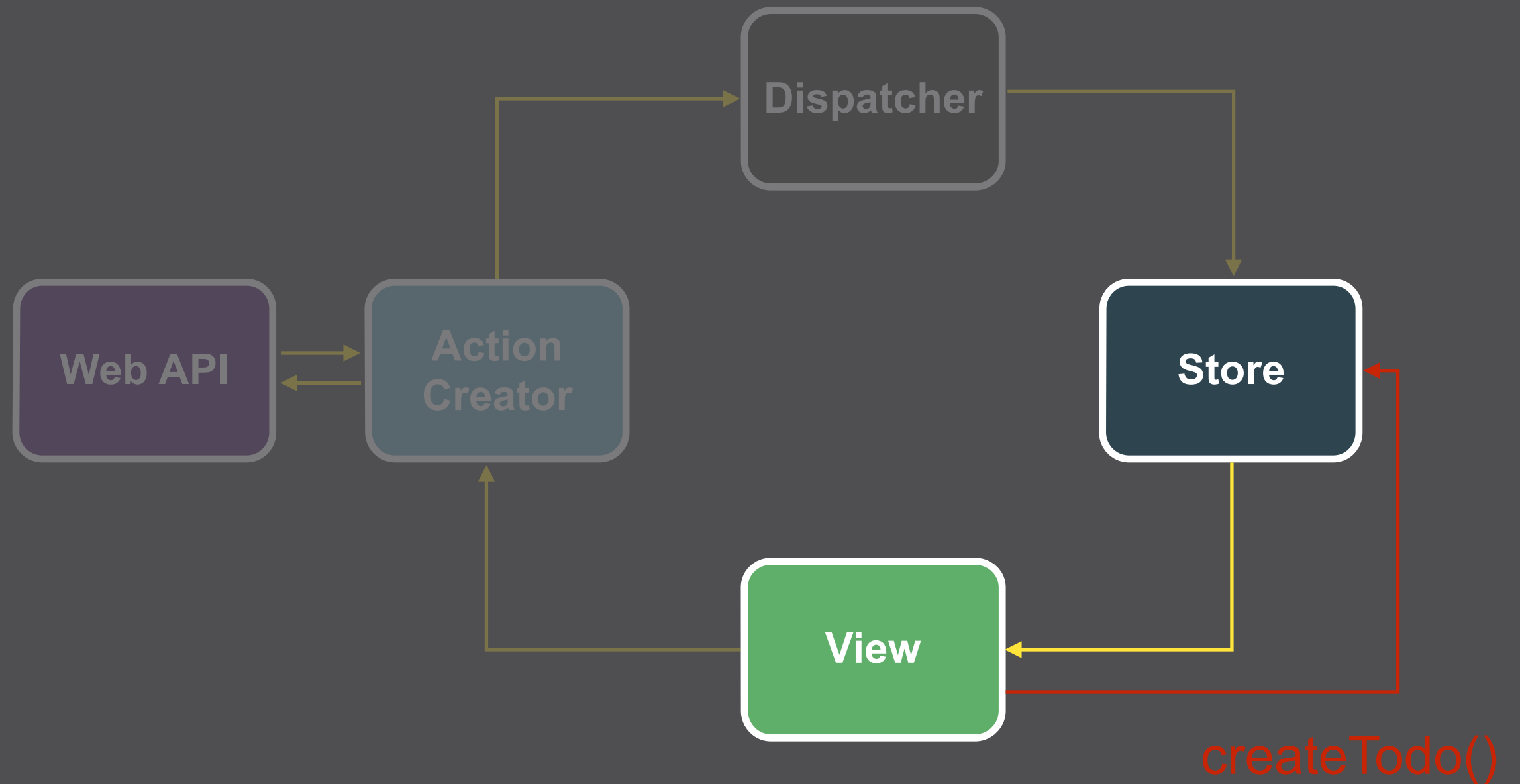
# GUI-tilstand i Views



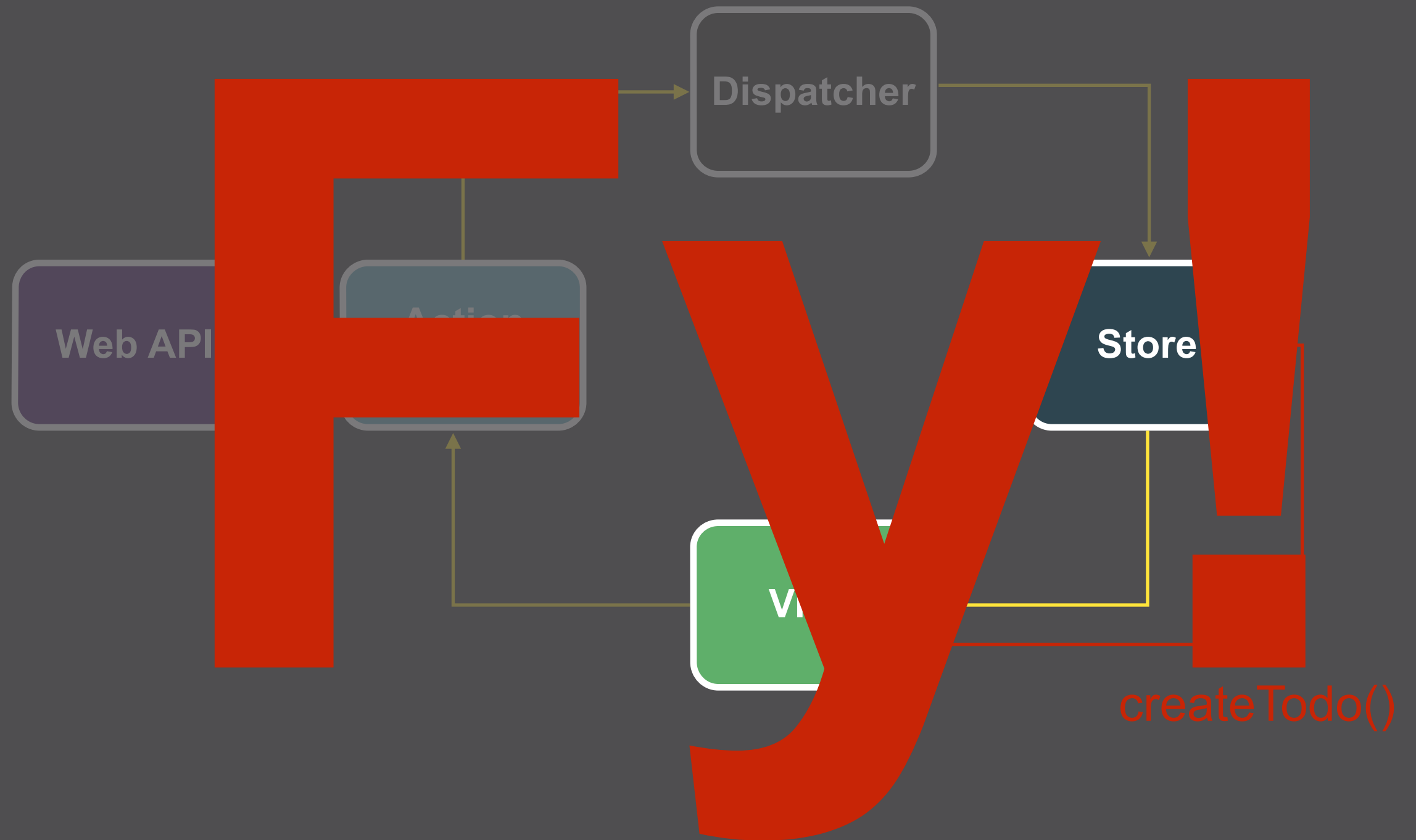
# Kun lesetilgang

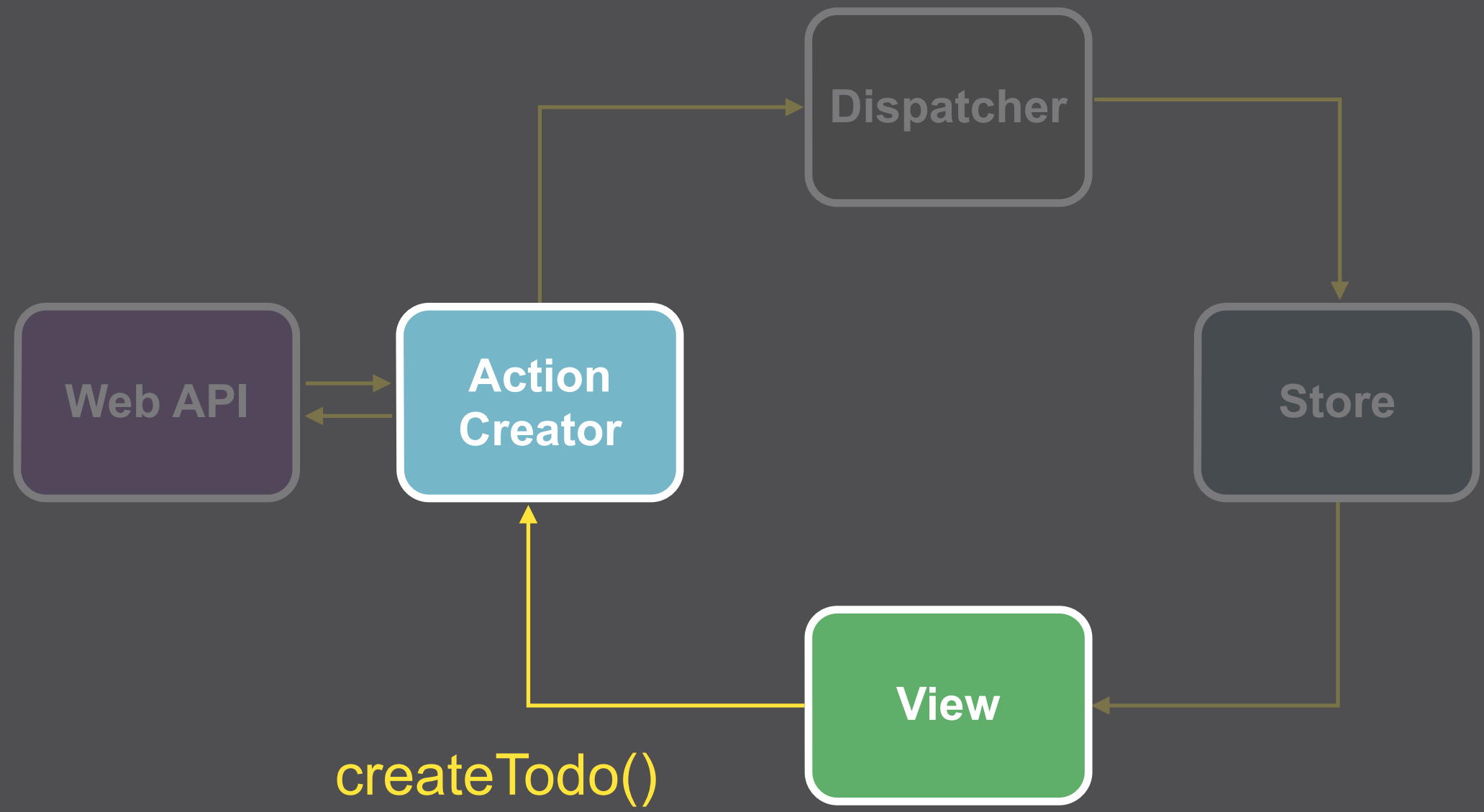


# Kun lesetilgang



# Kun lesetilgang



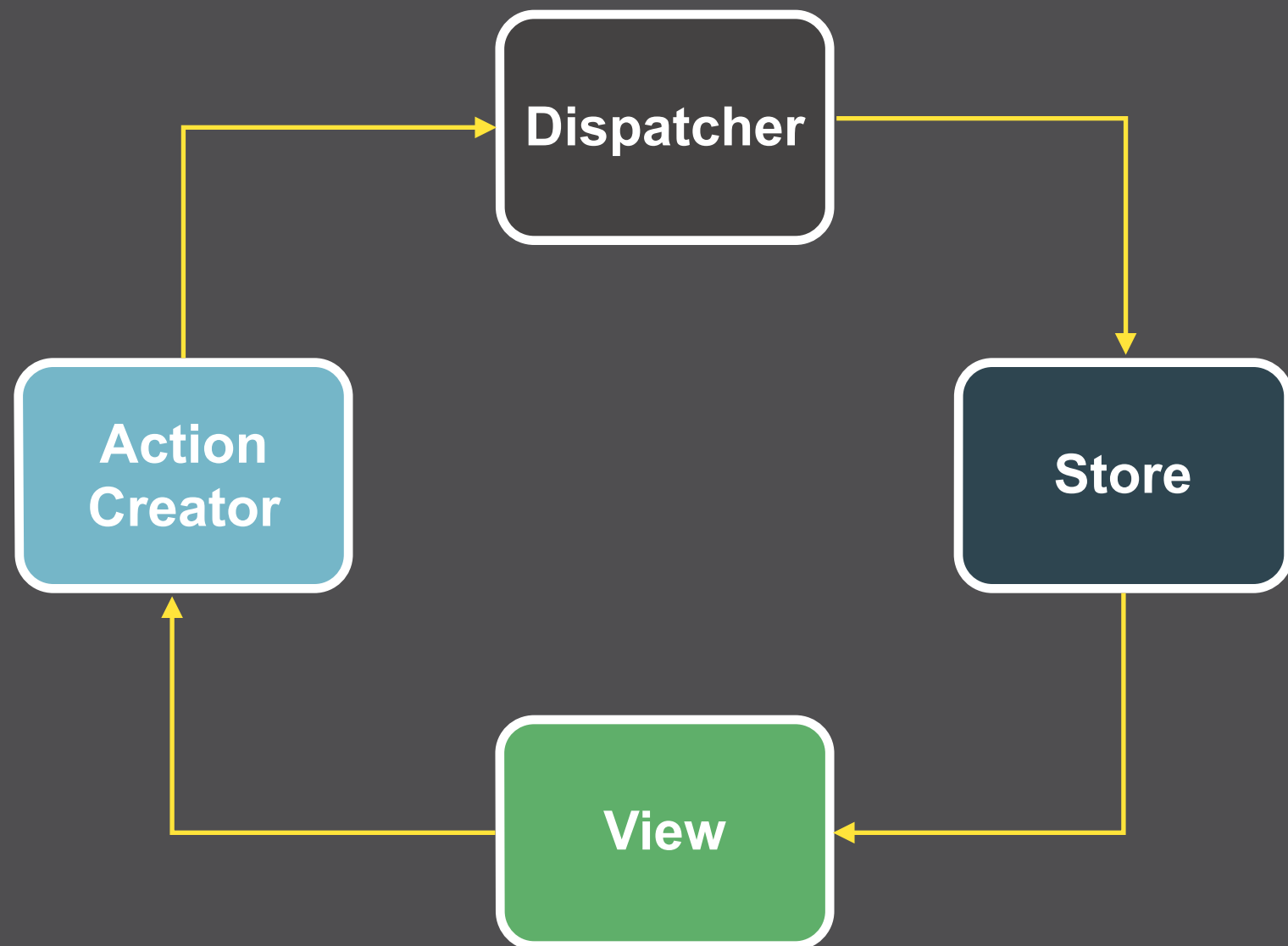




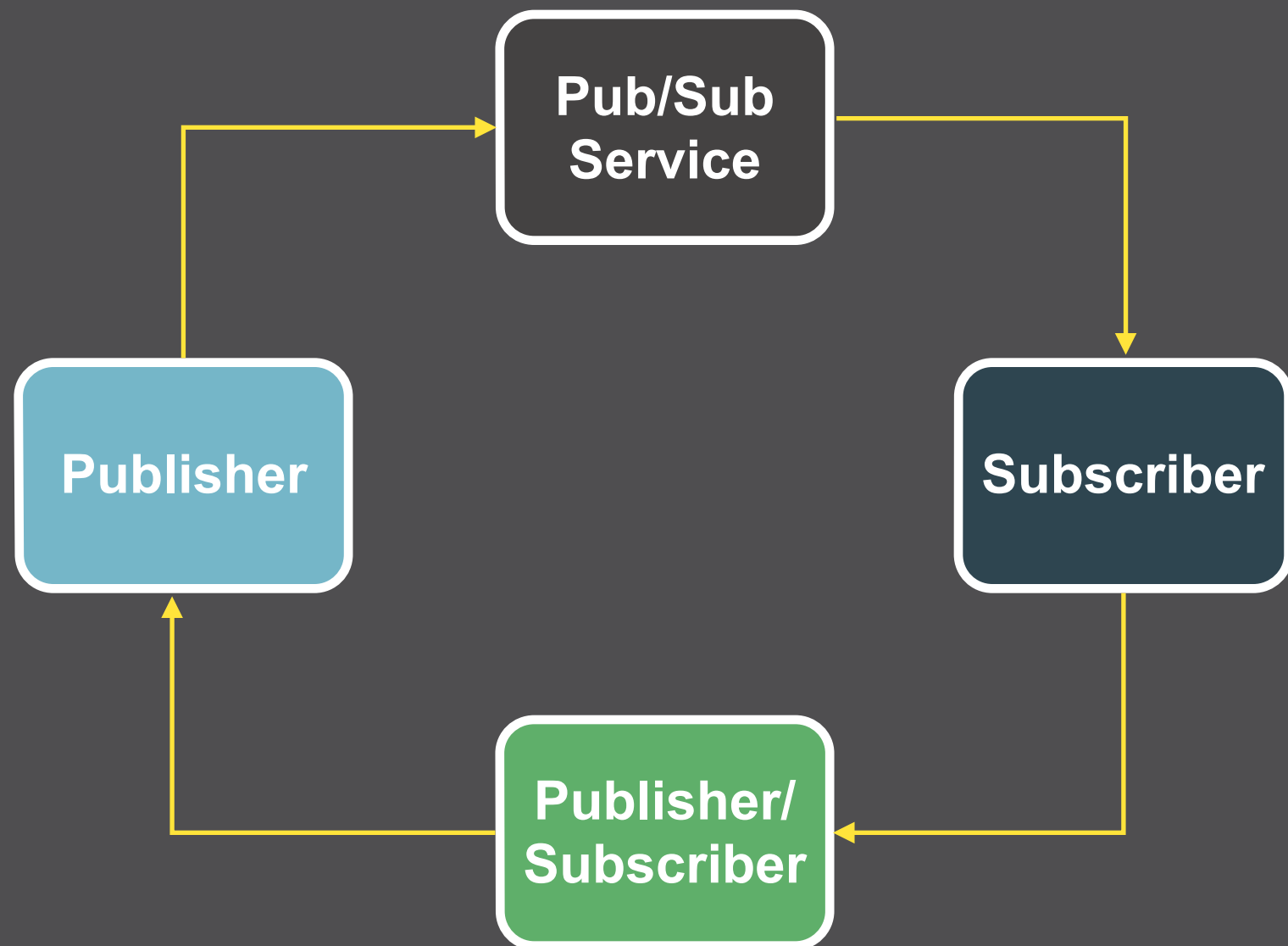


- Flux er ment som et komplement til React
- Viewet på rotnivå er et *controller view*
- Mottar events fra stores
- Kun lesetilgang til Stores

# Flux minner meg om...



# Pub/Sub



# Pub/Sub

*“Dispatcher is used to broadcast payloads to registered callbacks. This is different from generic pub-sub systems in two ways:*

- 1. Callbacks are not subscribed to particular events.*
- 2. Every payload is dispatched to every registered callback.*

*Callbacks can be deferred in whole or part until other callbacks have been executed.” [0]*

[0]: <http://facebook.github.io/flux/docs/dispatcher.html>

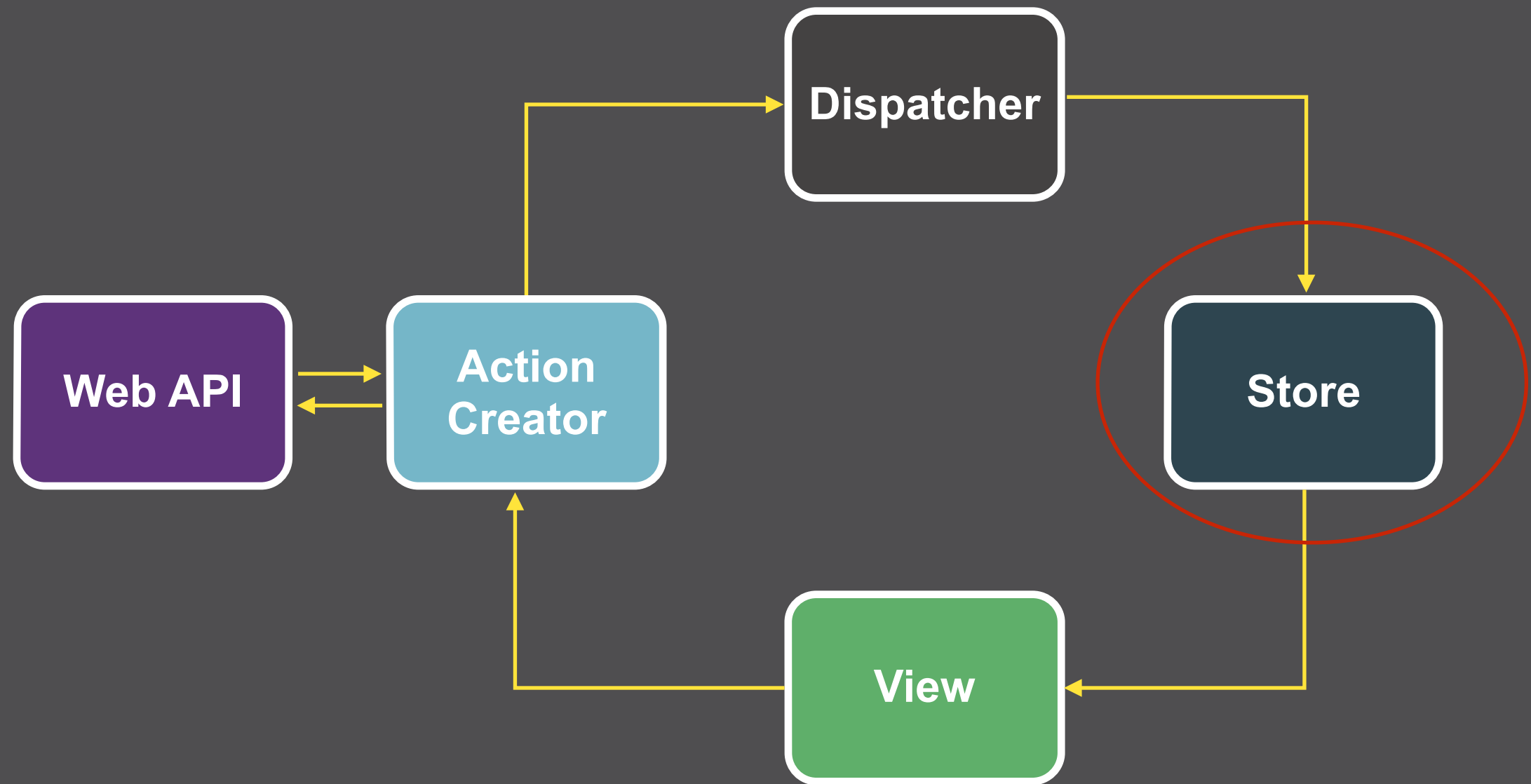
**Hvorfor?**

# Hvorfor Flux?

- Konseptuelt enkelt
- Forutsigbart, lett å debugge
- Lettere å resonnere rundt
- Isolerer asynkronitet og tilstand

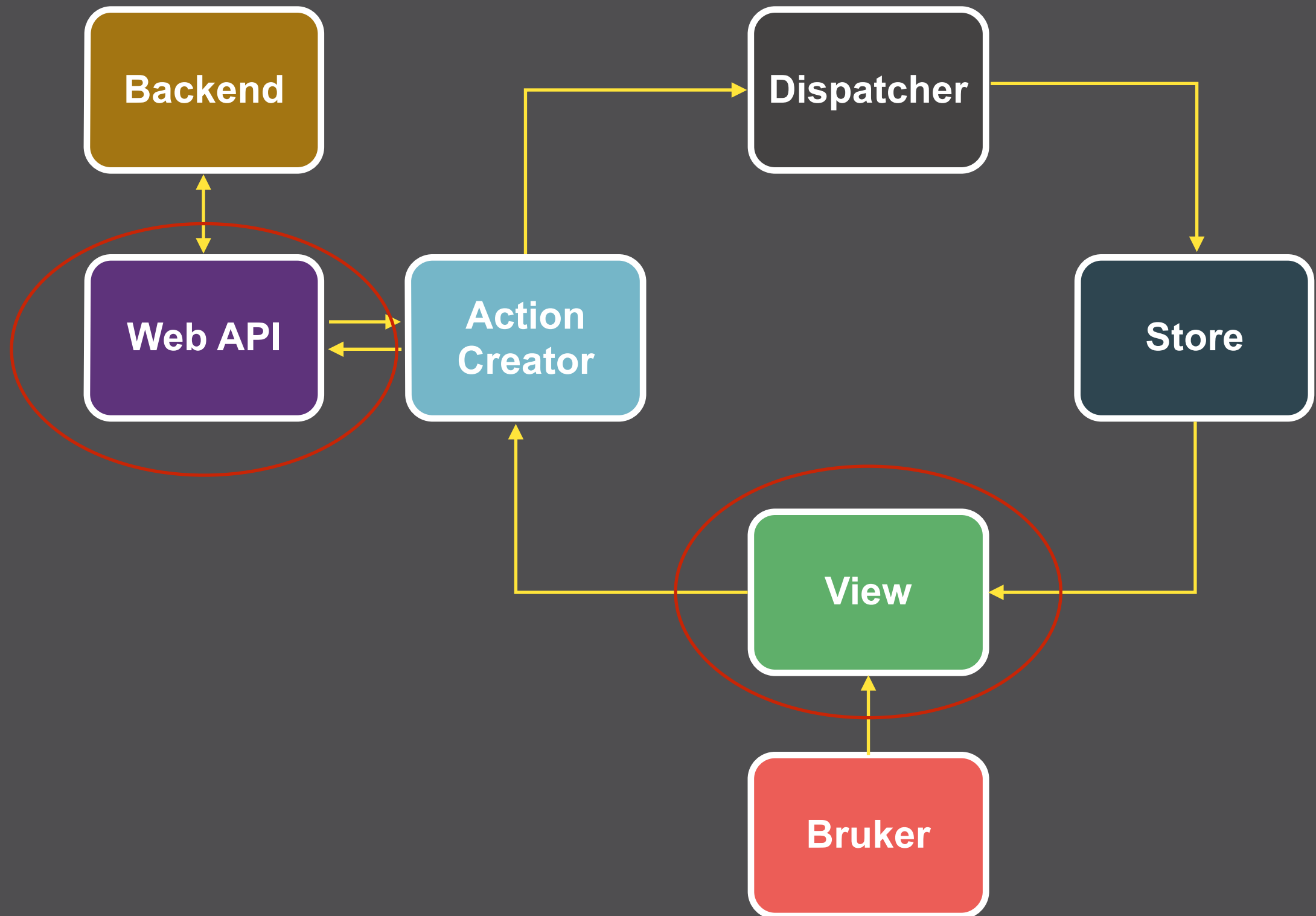
# Oppsummering

# Isolering av tilstand

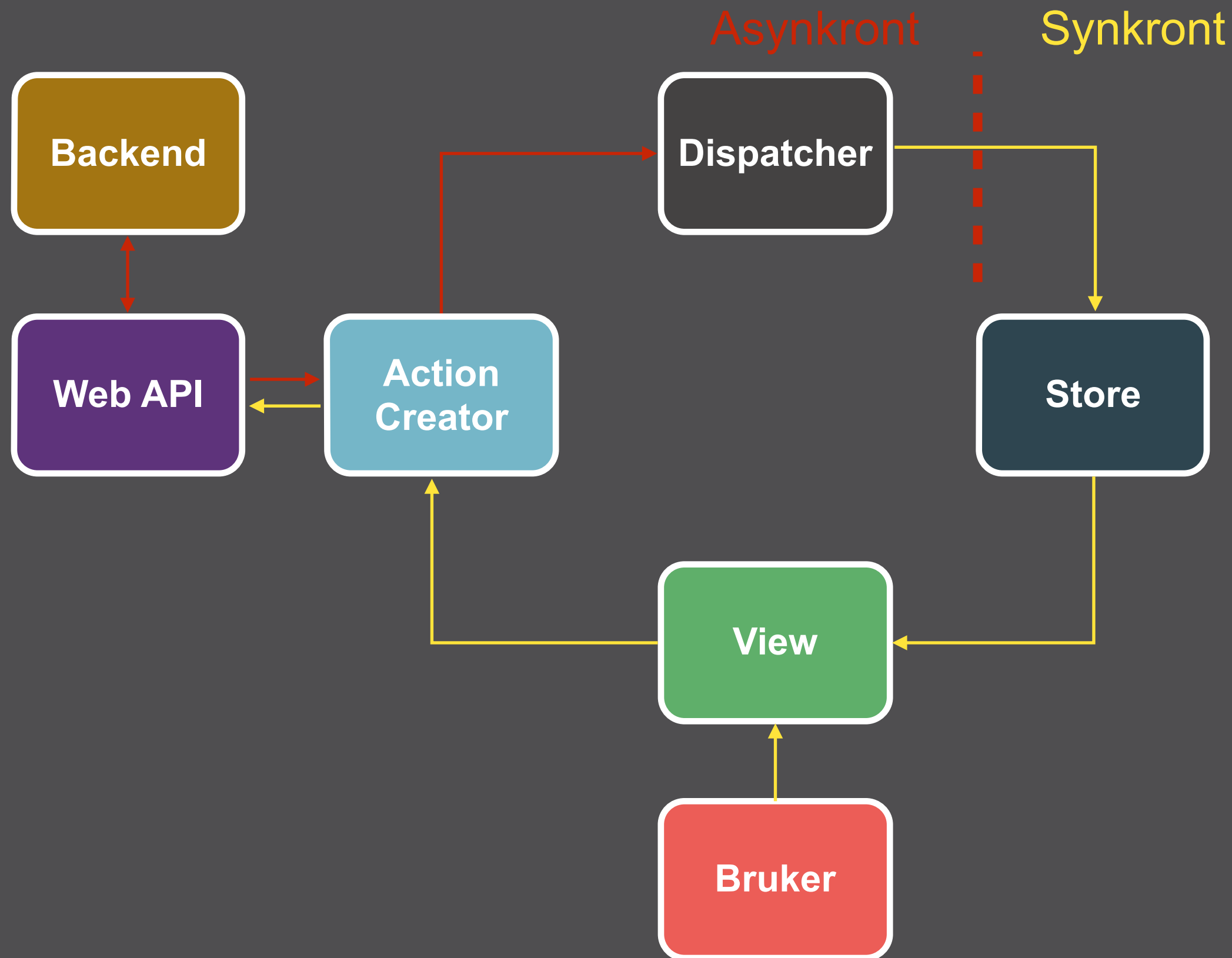




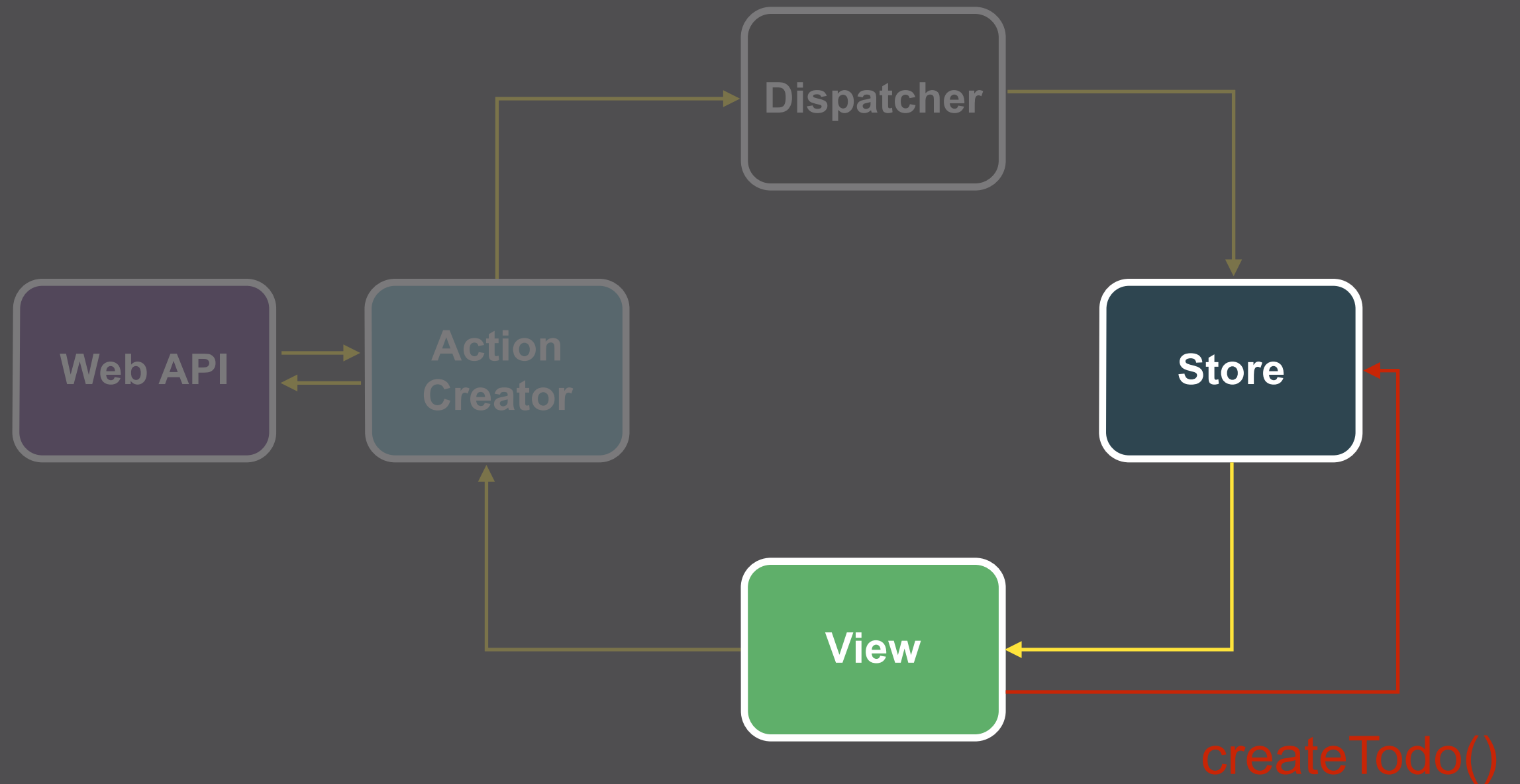
# Isolering av async



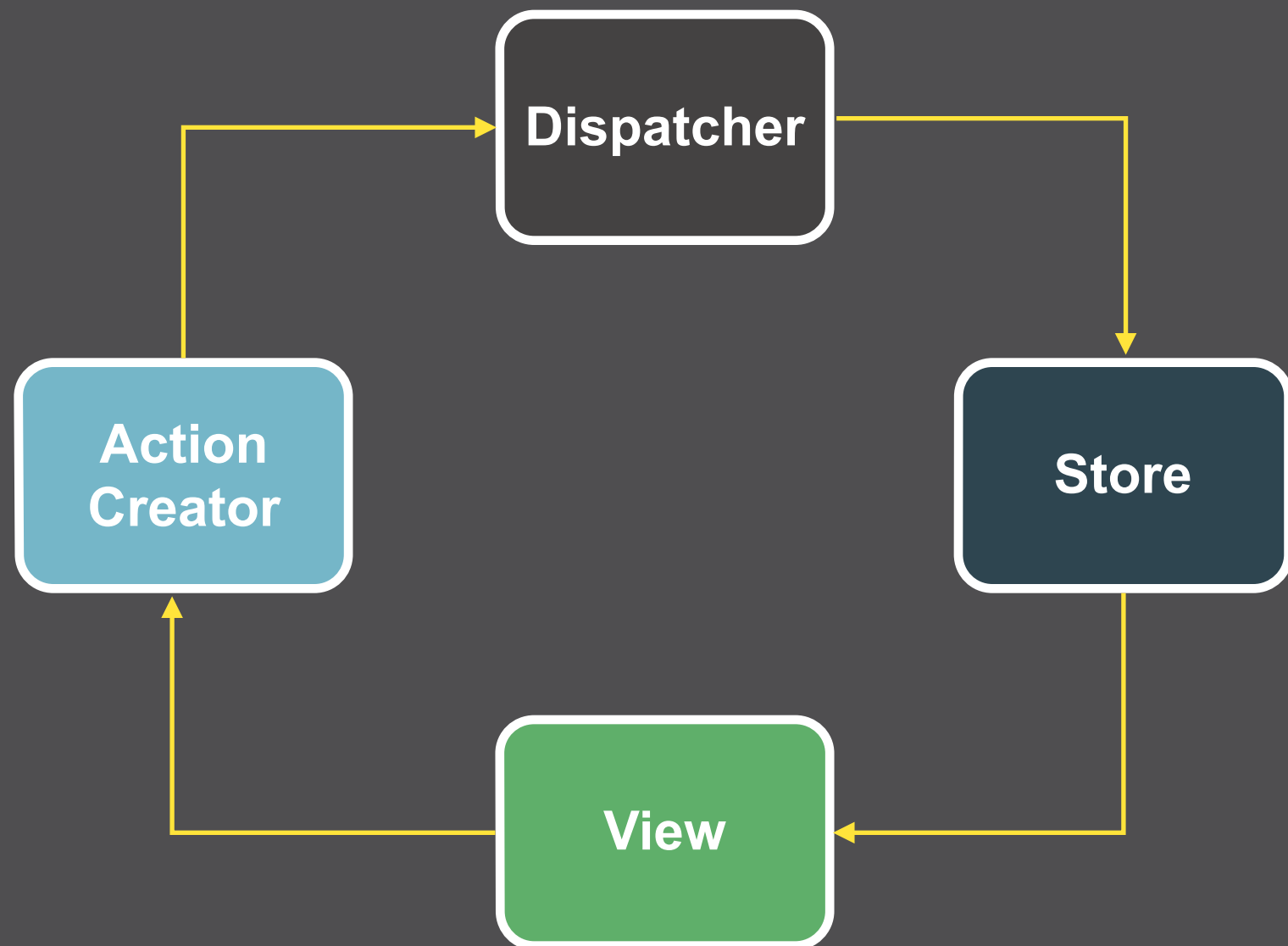
# Async “barriere”



# Kun lesetilgang



# Mental modell



# Framover

- Finsliping av konseptene (reflux, fluxxor, fluxible)
- Mer påvirkning fra funksjonelle paradigmer (frp)
- om (Clojurescript), omniscient (JS)
- Flow, Typescript

**<https://github.com/kjbekkelund/flux-workshop>**